

Pressure Boosting Systems

■ PUZeN Series	2
■ KF Series	30



Pressure Boosting Systems

PUZeN Series

Introduction of products

Max.8 inverters & 8 pumps installation in a system and multi inverter controlling system by PCU807 micro processor controller



Application

Suitable for places where variation of head and capacity is required, such as building, apartment, factory in water supply, fire fighting, pressure feeding application.

Fluids

Beverage, drinking water, coolant, etc and fire extinguishments use and all sorts of fluids that do no harm any materials of the pump chemically or mechanically and fluids that do not include wearing, or long fibroid material particles.

Technical Information data

- Max flow : 1360 m³/hr
- Max head : 250 m
- Number of available pump : 2~8
- Max. Fluid temp. : 70 °C
- Max. Ambient temp : 40 °C
- Main power source : 3 phase 220V/60Hz
3 phase 380V/60Hz
- Voltage tolerance : ±10%

Identification Code

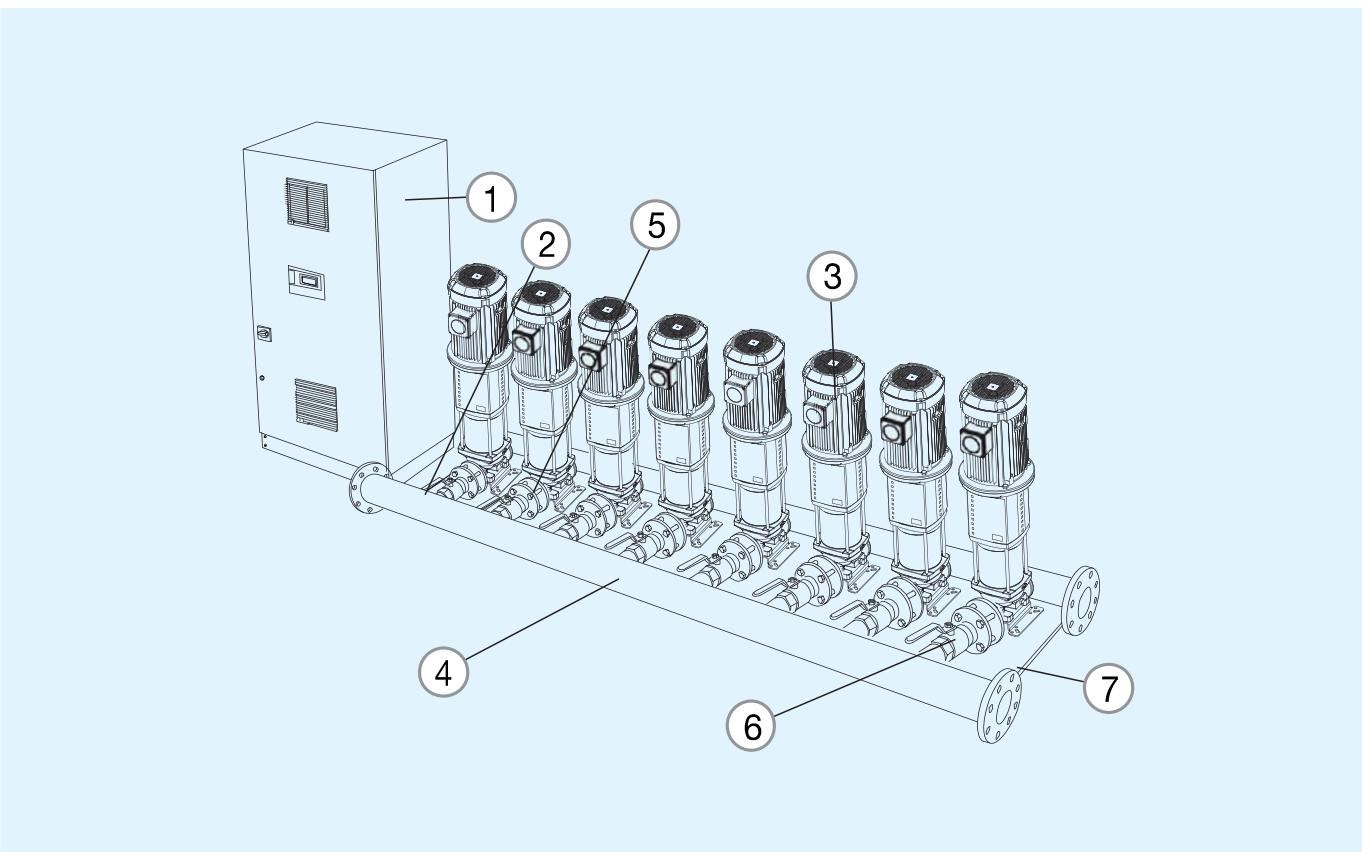
Wilo PZM /ZC4 Helix V2206 -4	
PZ(PUZeN Booster Systems)	
M : Multi-PUZeN	
C : Combi-PUZeN	
U : Uni-PUZeN	
S : Solo-PUZeN	
H : Hybrid-PUZeN	
V : Vario-PUZeN	
Number of Pump
PUZeN Controller, 4 Pumps	
Pump option & System option
Number of Inverter

Pressure Boosting Systems

PUZeN Series

Feature

Booster System-PUZeN Series



① Control Panel with excellent control functions and protection function

Electric control equipment which manages system functions
 - various operation / protection function
 - various options
 - module design for each parts
 - motor protection equipment

④ Manifold

Compact design
 Pipe support (above Helix V36, MVI36)

② Semiconductor pressure transmitter

It enables a parallel operation setup, smooth operation and water supply without any difference from operation pressure.

⑤ Check Valve - corrosion resistant

③ High quality, high performance vertical multistage pump

⑦ Bed

Pressure Boosting Systems

PUZeN Series

Feature

Features of PUZeN series

	PUZeN Series	Features
Feature	Various protections & VFD control	Accurate & flexible control
Pump	Vertical multistage	Saving installation space
Pressure sensing	Non contacting pressure transmitter	
	Functions	Explanation
Main/Stand by		Pre-set stand by pump shall only work when main pumps breakdown.
Sequential Operation		Pump with least operating hours shall start first and stop last to give equal load to each pumps
Avoiding frequent operation		It shall delay [in sec] the operation to prevent pressure hunting and frequent operation
Low flow detection (Pressure setting for deactivation)		It shall regularly check the flow by changing RPM of main pump to receive a signal for low flow (or no flow) by pressure switch or pressure sensor or flow sensor
Max Pressure setting		It shall alarm or stop the system in case of unexpected high pressure and start after pressure at discharge is lowered to preset value.
Min Pressure setting		It shall alarm or stop the system in case of reading unexpected low system pressure due to leakage from piping or pump.
Alarm for abnormal low pressure		When discharge pressure is not reaching switch-on pressure, it shall alarm or stop the operation to prevent from leakage in discharge piping or dry running
Inverter acceleration/deceleration		Accelerating time & decelerating time of inverter shall be adjustable to prevent motor and to keep pressure constant
Starting frequency setting		Required speed (frequency) can be reached rapidly
Controlling Sequential operation		It enables to set duration of time whenever secondary pump is activated or deactivated.
Trial run		When a certain pump has not been operated for a certain period of time, it will try to run the pump to prevent corrosion, sticking and possible damage due to air
Manual operation		Able to switch from automatic operation to manual operation for each pump
Skipping		When a certain pump breakdowns, it will be excluded in operation logic
Automatic activation		After power cut and back, the system will automatically start (or manually if set)
Dry running protection		Pressure switch or sensors will give signal to stop the system. It will stop when dry running is detected more than 5 times.
Menu lock		Password can be set for security
Reverse proportional operation		By means of PID control, it controls number of operating pumps and frequency if operating parameters are different from pre-set parameters
External control		It shall be able to stop/start the system as well as to change parameters (by internet, RS485, Fieldbus etc)
Primary/Secondary Sensors		2 Pressure sensors shall be installed in discharge side, so that secondary sensor replaces in case of breakdown of primary sensor. It alarms when 2 sensors read different pressures.
Compensation of friction loss		Pressure drop due to friction loss and activation of secondary pumps will be compensated automatically
Differential pressure control & Differential temperature control		HVAC application can be covered. (Option)
Schedule operation		Able to set operation parameters for each day of a week.
number of start per hour		Able to set minimum operation hours or number of start per hour
Constant Flow control		Able to keep flow by flow meter (Option)
Power saving		In case of electrical power shortage, system will not operate at 100% load (Option)
Help Library		Brief guide for installation will be displayed
Remote control		Able to set various parameters by remote controller (Option)
SMS Text		In case of breakdown, It will send a SMS text message with log
Super Operation		In case of breakdown of inverter, it will automatically switch to pressure controlling from frequency controlling (Option for PZM & PZC series)

Pressure Boosting Systems

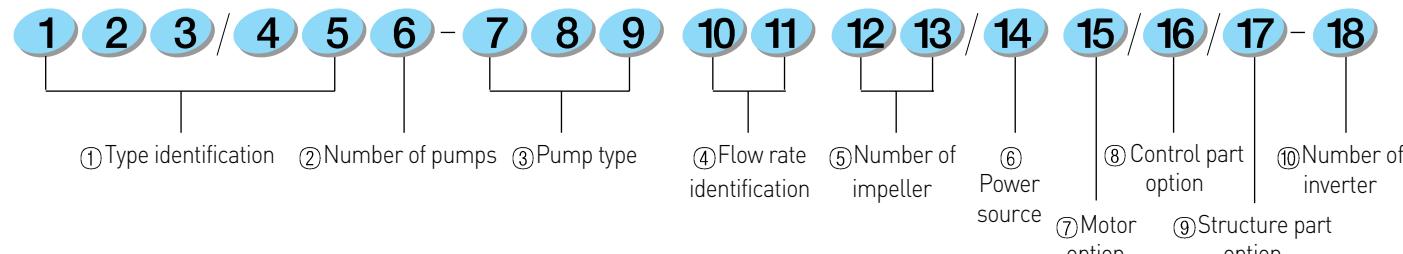
PUZeN Series

Feature

Features and functions

Control type	By inverter(up to 8)
Pump	Vertical multistage pump
Power source	3 phase 380v 60hz(Options available) (controller : single phase 220v, 60hz)
Pressure detection	Non-contact pressure sensor
Applicable fluid	Clean water(0 °C~70 °C)
Number of controllable pump	2~8

Booster system identification



Type identification

Identification	Type	Remark
PZU/ZC	High performance single inverter	Speed Control
PZC/ZC	High performance mixed inverter	Speed Control
PZM/ZC	High performance multi inverter	Speed Control
PZS/ZC	High performance single individual inverter	Speed Control
PZH/ZC	High performance mixed individual inverter	Speed Control
PZV/ZC	High performance multi individual inverter	Speed Control

Number of impeller

Identification	Number of stage	Identification	Number of stage	Identification	Number of stage
1	1	6	6	11	11
2	2	7	7	12	12
3	3	8	8	13	13
4	4	9	9	14	14
5	5	10	10		

Power Source

No.	Power	No.	Power
2	220V, 60Hz	B	220V, 50Hz
3	380V, 60Hz	C	380V, 50Hz
4	440V, 60Hz	D	440V, 50Hz
5	460V, 60Hz	E	460V, 50Hz
6	480V, 60Hz	F	480V, 50Hz

Number of pump

Identification	Number of pump	Identification	Number of pump
1	1 Set	5	5 Set
2	2 Set	6	6 Set
3	3 Set	7	7 Set
4	4 Set	8	8 Set

Water flow rate

• Pump Series

Motor option

Identification	Motor option
H	High efficiency
G	Explosion proof

Pump type

Identification	Pump type
Helix V	Helix V Series
MVI	MVI Series

Control part option

Identification	Option
S	stainless steel panel
L	ELCB for each
R	EOCR(Electronic Over Current Relay)
W	Extetnal Wired Control Module
I	Insulated Bolt, nut
K	Forging Counter Range (STS30 with KS Mark)
F	Noise Filter
SP	Super operation

structure part option

Identification	Option
1	Expansion of suction manifold
2	Expansion of discharge manifold
3	Bed
4	Insulated Bolt, nut
5	Forging Counter Range (STS30 with KS Mark)
6	Removal of 1 stage of impeller
7	SS Bed (For below MVI 18)
8	Super operation

Number of inverter

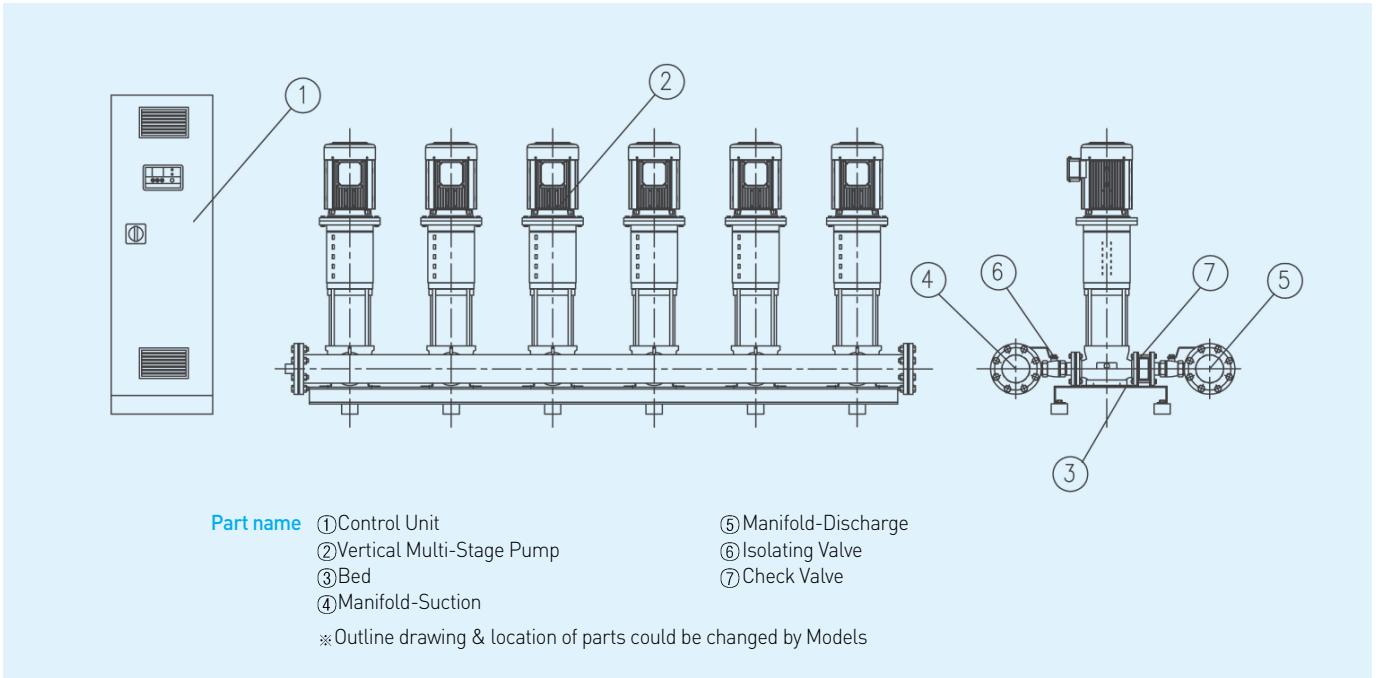
Identification	Option
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8

Pressure Boosting Systems

PUZeN Series

Product Information

Outline drawing



Number of Pump

Pump type	MVI2 Series					MVI4 Series					MVI8 Series				
Pump Bore	DN25					DN32					DN40				
No. Pump	2Pump	3Pump	4Pump	5Pump	6Pump	2Pump	3Pump	4Pump	5Pump	6Pump	2Pump	3Pump	4Pump	5Pump	6Pump
Bore of manifold-suction & Discharge	50A		65A		80A	50A	65A	80A	100A		80A		100A		

Pump type	Helix V16 / MVI18 Series					Helix V22 Series					Helix V36 / MVI36 Series													
Pump Bore	DN50					DN50					DN65													
No. Pump	2Pump	3Pump	4Pump	5Pump	6Pump	2Pump	3Pump	4Pump	5Pump	6Pump	2Pump	3Pump	4Pump	5Pump	6Pump									
Bore of manifold-suction & Discharge	80A	100A	125A		150A	125A	150A		200A		150A		200A											
Pump type	Helix V52 / MVI60 Series					MVI90 Series					MVI125 Series													
Pump Bore	DN80					DN100					DN100													
No. Pump	2Pump	3Pump	4Pump	5Pump	6Pump	2Pump	3Pump	4Pump	5Pump	6Pump	2Pump	3Pump	4Pump	5Pump	6Pump									
Bore of manifold-suction & Discharge	150A	200A	250A		200A	250A	300A		250A	300A		350A												

※ If there is a big loss in the suction side (in the case of long or bent pipe.) and a huge change in flow rate, we suggest you to choose a bigger pipe than suction manifold.

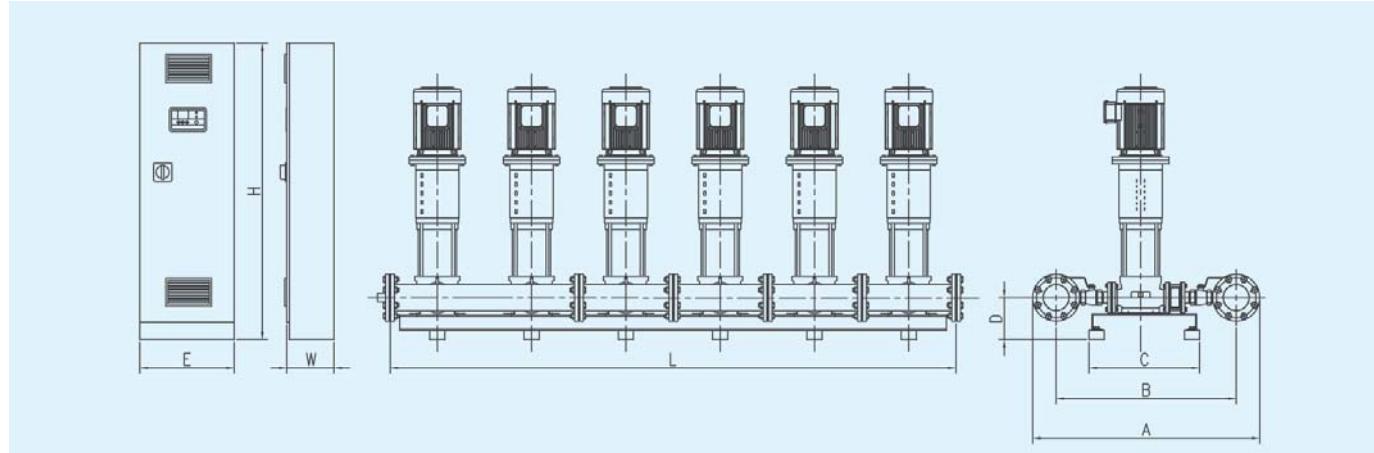
※ KF series could be supplied max. 5 pumps.

Pressure Boosting Systems

PUZeN Series

Product Structure

Outline _ PUZeN



PUZeN MVI 200(2 Pumps)

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø
MVI 202	700	835	680	440	185	600	600	400	400	1400	1400	0.55	2.8	1.6
MVI 203	700	835	680	440	185	600	600	400	400	1400	1400	0.75	3.1	1.9
MVI 204	700	835	680	440	185	600	600	400	400	1400	1400	1.1	4.6	2.7
MVI 205	700	835	680	440	185	600	600	400	400	1400	1400	1.5	5.5	3.3
MVI 206	700	835	680	440	185	600	600	400	400	1400	1400	1.85	6.7	4.0
MVI 207	700	835	680	440	185	600	600	400	400	1400	1400	2.2	8.0	4.9
MVI 208	700	835	680	440	185	600	600	400	400	1400	1400	2.2	8.0	4.9
MVI 210	700	835	680	440	185	600	600	400	400	1400	1400	3.0	10.5	6.3
MVI 212	700	835	680	440	185	600	600	400	400	1400	1400	3.7	11.9	7.7
MVI 214	700	840	680	440	185	600	600	400	400	1400	1400	3.7	11.9	7.7

PUZeN MVI 200(3 pumps)

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø
MVI 202	1000	835	680	440	185	600	600	400	400	1400	1400	0.55	2.8	1.6
MVI 203	1000	835	680	440	185	600	600	400	400	1400	1400	0.75	3.1	1.9
MVI 204	1000	835	680	440	185	600	600	400	400	1400	1400	1.1	4.6	2.7
MVI 205	1000	835	680	440	185	600	600	400	400	1400	1400	1.5	5.5	3.3
MVI 206	1000	835	680	440	185	600	600	400	400	1400	1400	1.85	6.7	4.0
MVI 207	1000	835	680	440	185	600	600	400	400	1400	1400	2.2	8.0	4.9
MVI 208	1000	835	680	440	185	600	600	400	400	1400	1400	2.2	8.0	4.9
MVI 210	1000	835	680	440	185	600	600	400	400	1400	1400	3.0	10.5	6.3
MVI 212	1000	835	680	440	185	600	600	400	400	1400	1400	3.7	11.9	7.7
MVI 214	1000	840	680	440	185	600	600</							

Pressure Boosting Systems

PUZeN Series

Outline & Electrical data

PUZeN MV 200(4 Pumps)

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F				
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø	P2	(A)
MVI 202	1300	870	695	440	185	600	600	400	400	1400	1400	0.55	2.8	1.6		
MVI 203	1300	870	695	440	185	600	600	400	400	1400	1400	0.75	3.1	1.9		
MVI 204	1300	870	695	440	185	600	600	400	400	1400	1400	1.1	4.6	2.7		
MVI 205	1300	870	695	440	185	600	600	400	400	1400	1400	1.5	5.5	3.3		
MVI 206	1300	870	695	440	185	600	600	400	400	1400	1400	1.85	6.7	4.0		
MVI 207	1300	870	695	440	185	600	600	400	400	1400	1400	2.2	8.0	4.9		
MVI 208	1300	870	695	440	185	600	600	400	400	1400	1400	2.2	8.0	4.9		
MVI 210	1300	870	695	440	185	600	600	400	400	1400	1400	3.0	10.5	6.3		
MVI 212	1300	870	695	440	185	600	600	400	400	1400	1400	3.7	11.9	7.7		
MVI 214	1300	880	695	440	185	600	600	400	400	1400	1400	3.7	11.9	7.7		

PUZeN MV 200(5 Pumps)

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F				
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø	P2	(A)
MVI 202	1600	870	695	440	185	600	600	400	500	1400	1900	0.55	2.8	1.6		
MVI 203	1600	870	695	440	185	600	600	400	500	1400	1900	0.75	3.1	1.9		
MVI 204	1600	870	695	440	185	600	600	400	500	1400	1900	1.1	4.6	2.7		
MVI 205	1600	870	695	440	185	600	600	400	500	1400	1900	1.5	5.5	3.3		
MVI 206	1600	870	695	440	185	600	600	400	500	1400	1900	1.85	6.7	4.0		
MVI 207	1600	870	695	440	185	600	600	400	500	1400	1900	2.2	8.0	4.9		
MVI 208	1600	870	695	440	185	600	600	400	500	1400	1900	2.2	8.0	4.9		
MVI 210	1600	870	695	440	185	600	600	400	500	1400	1900	3.0	10.5	6.3		
MVI 212	1600	870	695	440	185	600	600	400	500	1400	1900	3.7	11.9	7.7		
MVI 214	1600	880	695	440	185	600	600	400	500	1400	1900	3.7	11.9	7.7		

PUZeN MVI 200(6 Pumps)

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F				
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø	P2	(A)
MVI 202	1900	895	710	440	185	600	600	500	500	1900	1900	0.55	2.8	1.6		
MVI 203	1900	895	710	440	185	600	600	500	500	1900	1900	0.75	3.1	1.9		
MVI 204	1900	895	710	440	185	600	600	500	500	1900	1900	1.1	4.6	2.7		
MVI 205	1900	895	710	440	185	600	600	500	500	1900	1900	1.5	5.5	3.3		
MVI 206	1900	895	710	440	185	600	600	500	500	1900	1900	1.85	6.7	4.0		
MVI 207	1900	900	710	440	185	600	600	500	500	1900	1900	2.2	8.0	4.9		
MVI 208	1900	900	710	440	185	600	600	500	500	1900	1900	2.2	8.0	4.9		
MVI 210	1900	900	710	440	185	600	600	500	500	1900	1900	3.0	10.5	6.3		
MVI 212	1900	900	710	440	185	600	600	500	500	1900	1900	3.7	11.9	7.7		
MVI 214	1900	905	710	440	185	600	600	500	500	1900	1900	3.7	11.9	7.7		

Pressure Boosting Systems

PUZeN Series

Outline & Electrical data

PUZeN MVI 400(2 pumps)

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø
MVI 402	700	840	685	440	185	600	600	400	400					

Pressure Boosting Systems

PUZeN Series

Outline & Electrical data

PUZeN MVI 400[5 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F				
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø	P2	(A)
MVI 402	1600	950	740	440	185	600	600	400	500	1400	1900	0.75	3.1	1.9		
MVI 403	1600	950	740	440	185	600	600	400	500	1400	1900	1.1	4.6	2.7		
MVI 404	1600	950	740	440	185	600	600	400	500	1400	1900	1.5	5.5	3.3		
MVI 405	1600	950	740	440	185	600	600	400	500	1400	1900	1.85	6.7	4.0		
MVI 406	1600	950	740	440	185	600	600	400	500	1400	1900	2.2	8.0	4.9		
MVI 407	1600	955	740	440	185	600	600	400	500	1400	1900	3.0	10.5	6.3		
MVI 408	1600	955	740	440	185	600	600	400	500	1400	1900	3.0	10.5	6.3		
MVI 410	1600	955	740	440	185	600	600	400	500	1400	1900	3.7	11.9	7.7		
MVI 412	1600	955	740	440	185	600	600	400	500	1400	1900	5.5	18.8	10.9		
MVI 414	1600	965	740	440	185	600	600	400	500	1400	1900	5.5	18.8	10.9		

PUZeN MVI 400[6 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F				
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø	P2	(A)
MVI 402	1900	950	740	440	185	600	600	500	500	1900	1900	0.75	3.1	1.9		
MVI 403	1900	950	740	440	185	600	600	500	500	1900	1900	1.1	4.6	2.7		
MVI 404	1900	950	740	440	185	600	600	500	500	1900	1900	1.5	5.5	3.3		
MVI 405	1900	950	740	440	185	600	600	500	500	1900	1900	1.85	6.7	4.0		
MVI 406	1900	950	740	440	185	600	600	500	500	1900	1900	2.2	8.0	4.9		
MVI 407	1900	955	740	440	185	600	600	500	500	1900	1900	3.0	10.5	6.3		
MVI 408	1900	955	740	440	185	600	600	500	500	1900	1900	3.0	10.5	6.3		
MVI 410	1900	955	740	440	185	600	600	500	500	1900	1900	3.7	11.9	7.7		
MVI 412	1900	955	740	440	185	600	800	500	500	1900	1900	5.5	18.8	10.9		
MVI 414	1900	965	740	440	185	600	800	500	500	1900	1900	5.5	18.8	10.9		

PUZeN MVI 800[2 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F				
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø	P2	(A)
MVI 802	700	995	810	440	185	600	600	400	400	1400	1400	1.5	5.5	3.3		
MVI 803	700	995	810	440	185	600	600	400	400	1400	1400	2.2	8.0	4.9		
MVI 804	700	995	810	440	185	600	600	400	400	1400	1400	3.0	10.5	6.3		
MVI 805	700	995	810	440	185	600	600	400	400	1400	1400	3.7	11.9	7.7		
MVI 806	700	995	810	440	185	600	600	400	400	1400	1400	4.0	13.9	8.0		
MVI 807	700	1000	810	440	185	600	600	400	400	1400	1400	5.5	18.8	10.9		
MVI 808	700	1000	810	440	185	600	600	400	400	1400	1400	7.5	-	15.0		
MVI 810	900	1000	810	440	185	600	600	400	400	1400	1400	7.5	-	15.0		
MVI 811	900	1000	810	440	185	600	600	400	400	1400	1400	7.5	-	15.0		

Pressure Boosting Systems

PUZeN Series

Outline & Electrical data

PUZeN MVI 800[3 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F				
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø	P2	(A)
MVI 802	1000	995	810	440	185	600	600	400	400	1400	1400	1.5	5.5	3.3		
MVI 803	1000	995	810	440	185	600	600	400								

Pressure Boosting Systems

PUZeN Series

Outline & Electrical data

PUZeN MVI 800[6 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F				
												P2	(A)	(kW)	220V, 3Ø	380V, 3Ø
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø		
MVI 802	1900	1045	835	440	185	600	600	500	500	1900	1900	1.5	5.5	3.3		
MVI 803	1900	1045	835	440	185	600	600	500	500	1900	1900	2.2	8.0	4.9		
MVI 804	1900	1045	835	440	185	600	600	500	500	1900	1900	3.0	10.5	6.3		
MVI 805	1900	1045	835	440	185	600	600	500	500	1900	1900	3.7	11.9	7.7		
MVI 806	1900	1045	835	440	185	600	600	500	500	1900	1900	4.0	13.9	8.0		
MVI 807	1900	1050	835	440	185	600	800	500	500	1900	1900	5.5	18.8	10.9		
MVI 808	1900	1050	835	440	185	600	800	500	500	1900	1900	5.5	18.8	10.9		
MVI 810	2900	1050	835	440	185	600	800	500	500	1900	1900	7.5	-	15.0		
MVI 811	2900	1050	835	440	185	600	800	500	500	1900	1900	7.5	-	15.0		

PUZeN Helix V1600[2 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F				
												P2	(A)	(kW)	220V, 3Ø	380V, 3Ø
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø		
Helix V1602	700	1137	952	450	210	600	600	400	400	1400	1400	3	10.5	6.3		
Helix V1603	700	1137	952	450	210	600	600	400	400	1400	1400	3.7	11.9	7.7		
Helix V1604	700	1137	952	450	210	600	600	400	400	1400	1400	5.5	18.8	10.9		
Helix V1605	900	1144	952	450	210	600	600	400	400	1400	1400	7.5	-	15.0		
Helix V1606	900	1144	952	450	210	600	600	400	400	1400	1400	7.5	-	15.0		
Helix V1607	900	1144	952	450	210	600	600	500	500	1900	1900	11	-	21.7		
Helix V1608	900	1144	952	450	210	600	600	500	500	1900	1900	11	-	21.7		
Helix V1609	900	1144	952	450	210	600	600	500	500	1900	1900	11	-	21.7		
Helix V1611	900	1179	982	450	210	600	600	500	500	1900	1900	15	-	27.4		
Helix V1613	900	1179	982	450	210	600	600	500	500	1900	1900	18.5	-	33.6		

PUZeN Helix V1600[3 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F				
												P2	(A)	(kW)	220V, 3Ø	380V, 3Ø
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø		
Helix V1602	1000	1162	952	450	210	600	600	400	400	1400	1400	3	10.5	6.3		
Helix V1603	1000	1162	952	450	210	600	600	400	400	1400	1400	3.7	11.9	7.7		
Helix V1604	1000	1162	952	450	210	600	600	400	400	1400	1400	5.5	18.8	10.9		
Helix V1605	1400	1169	952	450	210	600	600	400	400	1400	1400	7.5	-	15.0		
Helix V1606	1400	1169	952	450	210	600	600	400	400	1400	1400	7.5	-	15.0		
Helix V1607	1400	1169	952	450	210	600	800	500	500	1900	1900	11	-	21.7		
Helix V1608	1400	1169	952	450	210	600	800	500	500	1900	1900	11	-	21.7		
Helix V1609	1400	1169	952	450	210	600	800	500	500	1900	1900	11	-	21.7		
Helix V1611	1400	1207	982	450	210	600	800	500	500	1900	1900	15	-	27.4		
Helix V1613	1400	1207	982	450	210	600	800	500	500	1900	1900	18.5	-	33.6		

Pressure Boosting Systems

PUZeN Series

Outline & Electrical data

PUZeN Helix V1600[4 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F			
						P2	(A)	(kW)	220V, 3Ø	380V, 3Ø					
PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V,							

Pressure Boosting Systems

PUZeN Series

Outline & Electrical data

PUZeN Helix V2200(2 pumps)

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F			
						PZU/ZC		PZM/ZC		PZU/ZC		PZM/ZC		P2	(A)
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3 Ø	380V, 3 Ø	
Helix V2202/2	900	1202	952	450	210	600	600	400	400	1400	1400	3.7	11.9	7.7	
Helix V2202	900	1202	952	450	210	600	600	400	400	1400	1400	5.5	18.8	10.9	
Helix V2203/3	900	1202	952	450	210	600	600	400	400	1400	1400	5.5	18.8	10.9	
Helix V2203	900	1202	952	450	210	600	600	400	400	1400	1400	7.5	-	15.0	
Helix V2204/3	900	1202	952	450	210	600	600	400	400	1400	1400	7.5	-	15.0	
Helix V2205/2	900	1212	952	450	210	600	600	500	500	1900	1900	11	-	21.7	
Helix V2206	900	1212	952	450	210	600	600	500	500	1900	1900	15	-	27.4	
Helix V2207/2	900	1212	952	450	210	600	600	500	500	1900	1900	15	-	27.4	
Helix V2208	900	1244	982	450	210	600	600	500	500	1900	1900	18.5	-	33.6	
Helix V2209	900	1244	982	650	261	600	600	500	500	1900	1900	22	-	39.5	
Helix V2210/3	900	1244	982	650	261	600	600	500	500	1900	1900	22	-	39.5	

Pressure Boosting Systems

PUZeN Series

Outline & Electrical data

PUZeN Helix V2200(5 pumps)

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F				
						PZU/ZC		PZM/ZC		PZU/ZC		PZM/ZC		P2	(A)	
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3 Ø	380V, 3 Ø		
Helix V2202/2	2400	1282	952	450	210	600	600	400	400	500	500	1400	1900	3.7	11.9	7.7
Helix V2202	2400	1282	952	450	210	600	600	400	400	500	500	1400	1900	5.5	18.8	10.9
Helix V2203/3	2400	1282	952	450	210	600	600	400	400	500	500	1400	1900	5.5	18.8	10.9
Helix V2203	2400	1282	952	450	210	600	600	400	400	500	500	1400	1900	7.5	-	15.0
Helix V2204/3	2400	1282	952	450	210	600	600	400	400	500	500	1400	1900	7.5	-	15.0
Helix V2205/2	2400	1292	952	450	210	800	1000	500	500	1900	1900	11	-	21.7		
Helix V2206	2400	1292	952	450	210	800	1000	500	500	1900	1900	15	-	27.4		
Helix V2207/2	2400	1292	952	450	210	800	1000	500	500	1900	1900	15	-	27.4		
Helix V2208	2400	1332	982	450	210	1000	1000	500	500	1900	1900	18.5	-	33.6		
Helix V2209	2400	1332	982	650	261	1000	1200	500	500	1900	1900	22	-	39.5		
Helix V2210/3	2400	1332	982	650	261	1000	1200	500	500	1900	1900	22	-	39.5		

PUZeN Helix V2200(3 pumps)

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F			
						PZU/ZC		PZM/ZC		PZU/ZC		PZM/ZC		P2	(A)
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3 Ø	380V, 3 Ø	
Helix V2202/2	1400	1232	952	450	210	600	600	400	400	1400	1400	3.7	11.9	7.7	
Helix V2202	1400	1232	952	450	210	600	600	400	400	1400	1400	5.5	18.8	10.9	
Helix V2203/3	1400	1232	952	450	210	600	600	400	400	1400	1400	5.5	18.8	10.9	
Helix V2203	1400	1232	952	450	210	600	600	400	400	1400	1400	7.5	-	15.0	
Helix V2204/3	1400	1232	952	450	210	600	600	400	400	1400	1400	7.5	-	15.0	
Helix V2205/2	1400	1244	952	450	210	600	800	500	500	1900	1900	11	-	21.7	
Helix V2206	1400	1244	952	450	210	600	800	500	500	1900	1900	15	-	27.4	
Helix V2207/2	1400	1244	952	450	210	600	800	500	500	1900	1900	15	-	27.4	
Helix V2208	1400	1284	982	450	210	600	800	500	500	1900	1900	18.5	-	33.6	
Helix V2209	1400	1284	982	650	261	800	800	500	500	1900	1900	22	-	39.5	
Helix V2210/3	1400	1284	982	650	261	800	800	500	500	1900	1900	22			

Pressure Boosting Systems

PUZeN Series

Outline & Electrical data

PUZeN Helix V3600(3 pumps)

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø
Helix V3602/2	1500	1700	1420	1050	310	600	600	400	400	1400	1400	7.5	-	15.0
Helix V3602/1	1500	1700	1420	1050	310	600	800	500	500	1900	1900	9	-	17.5
Helix V3602	1500	1700	1420	1050	310	600	800	500	500	1900	1900	11	-	21.7
Helix V3603/2	1500	1700	1420	1050	310	600	800	500	500	1900	1900	15	-	27.4
Helix V3603	1500	1712	1420	1050	310	600	800	500	500	1900	1900	15	-	27.4
Helix V3604/2	1500	1712	1420	1050	310	600	800	500	500	1900	1900	18.5	-	33.6
Helix V3604	1500	1712	1420	1050	310	800	800	500	500	1900	1900	22	-	39.5
Helix V3605/2	1500	1712	1420	1050	310	800	800	500	500	1900	1900	22	-	39.5
Helix V3605	1700	1712	1420	1050	310	*	*	*	*	*	*	30	-	53.5
Helix V3606/2	1700	1722	1420	1050	310	*	*	*	*	*	*	30	-	53.5
Helix V3606	1700	1722	1420	1050	310	*	*	*	*	*	*	37	-	67.1
Helix V3607/2	1700	1722	1420	1050	310	*	*	*	*	*	*	37	-	67.1

PUZeN Helix V3600(4 pumps)

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø
Helix V3602/2	2000	1750	1420	1050	310	600	600	400	500	1400	1900	7.5	-	15.0
Helix V3602/1	2000	1750	1420	1050	310	800	800	500	500	1900	1900	9	-	17.5
Helix V3602	2000	1750	1420	1050	310	800	800	500	500	1900	1900	11	-	21.7
Helix V3603/2	2000	1750	1420	1050	310	800	800	500	500	1900	1900	15	-	27.4
Helix V3603	2000	1760	1420	1050	310	800	800	500	500	1900	1900	15	-	27.4
Helix V3604/2	2000	1760	1420	1050	310	800	800	500	500	1900	1900	18.5	-	33.6
Helix V3604	2000	1760	1420	1050	310	800	1000	500	500	1900	1900	22	-	39.5
Helix V3605/2	2000	1760	1420	1050	310	800	1000	500	500	1900	1900	22	-	39.5
Helix V3605	2300	1760	1420	1050	310	*	*	*	*	*	*	30	-	53.5
Helix V3606/2	2300	1770	1420	1050	310	*	*	*	*	*	*	30	-	53.5
Helix V3606	2300	1770	1420	1050	310	*	*	*	*	*	*	37	-	67.1
Helix V3607/2	2300	1770	1420	1050	310	*	*	*	*	*	*	37	-	67.1

PUZeN Helix V3600(5 pumps)

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø
Helix V3602/2	2500	1750	1420	1050	310	600	600	400	500	1400	1900	7.5	-	15.0
Helix V3602/1	2500	1750	1420	1050	310	800	1000	500	500	1900	1900	9	-	17.5
Helix V3602	2500	1750	1420	1050	310	800	1000	500	500	1900	1900	11	-	21.7
Helix V3603/2	2500	1750	1420	1050	310	800	1000	500	500	1900	1900	15	-	27.4
Helix V3603	2500	1760	1420	1050	310	800	1000	500	500	1900	1900	15	-	27.4
Helix V3604/2	2500	1760	1420	1050	310	1000	1000	500	500	1900	1900	18.5	-	33.6
Helix V3604	2500	1760	1420	1050	310	1000	1200	500	500	1900	1900	22	-	39.5
Helix V3605/2	2500	1760	1420	1050	310	1000	1200	500	500	1900	1900	22	-	39.5
Helix V3605	2900	1760	1420	1050	310	*	*	*	*	*	*	30	-	53.5
Helix V3606/2	2900	1770	1420	1050	310	*	*	*	*	*	*	30	-	53.5
Helix V3606	2900	1770	1420	1050	310	*	*	*	*	*	*	37	-	67.1
Helix V3607/2	2900	1770	1420	1050	310	*	*	*	*	*	*	37	-	67.1

Pressure Boosting Systems

PUZeN Series

Outline & Electrical data

PUZeN Helix V3600(6 pumps)

PUZeN	L	A	B	C	D	E		W	
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Pressure Boosting Systems

PUZeN Series

Outline & Electrical data

PUZeN Helix V5200(4 pumps)

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
						PZU/ZC		PZM/ZC		PZU/ZC		P2	(A)	
						(kW)	220V, 3 Ø	380V, 3 Ø	(kW)	220V, 3 Ø	380V, 3 Ø	(kW)	220V, 3 Ø	380V, 3 Ø
Helix V5202/1	2000	2020	1620	1210	345	800	800	500	500	1900	1900	11	-	21.7
Helix V5202	2000	2020	1620	1210	345	800	800	500	500	1900	1900	15	-	27.4
Helix V5203/2	2000	2020	1620	1210	345	800	800	500	500	1900	1900	18.5	-	33.6
Helix V5203	2000	2035	1620	1210	345	800	1000	500	500	1900	1900	22	-	39.5
Helix V5204/2	2000	2035	1620	1210	345	800	1000	500	500	1900	1900	22	-	39.5
Helix V5204	2300	2035	1620	1210	345	*	*	*	*	*	*	30	-	53.5
Helix V5205/2	2300	2035	1620	1210	345	*	*	*	*	*	*	30	-	53.5
Helix V5205	2300	2045	1620	1210	345	*	*	*	*	*	*	37	-	67.1
Helix V5206/2	2300	2045	1620	1210	345	*	*	*	*	*	*	37	-	67.1

PUZeN Helix V5200(5 pumps)

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
						PZU/ZC		PZM/ZC		PZU/ZC		P2	(A)	
						(kW)	220V, 3 Ø	380V, 3 Ø	(kW)	220V, 3 Ø	380V, 3 Ø	(kW)	220V, 3 Ø	380V, 3 Ø
Helix V5202/1	2500	2020	1620	1210	345	800	1000	500	500	1900	1900	11	-	21.7
Helix V5202	2500	2020	1620	1210	345	800	1000	500	500	1900	1900	15	-	27.4
Helix V5203/2	2500	2020	1620	1210	345	1000	1000	500	500	1900	1900	18.5	-	33.6
Helix V5203	2500	2035	1620	1210	345	1000	1200	500	500	1900	1900	22	-	39.5
Helix V5204/2	2500	2035	1620	1210	345	1000	1200	500	500	1900	1900	22	-	39.5
Helix V5204	2900	2035	1620	1210	345	*	*	*	*	*	*	30	-	53.5
Helix V5205/2	2900	2035	1620	1210	345	*	*	*	*	*	*	30	-	53.5
Helix V5205	2900	2045	1620	1210	345	*	*	*	*	*	*	37	-	67.1
Helix V5206/2	2900	2045	1620	1210	345	*	*	*	*	*	*	37	-	67.1

PUZeN Helix V5200(6 pumps)

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
						PZU/ZC		PZM/ZC		PZU/ZC		P2	(A)	
						(kW)	220V, 3 Ø	380V, 3 Ø	(kW)	220V, 3 Ø	380V, 3 Ø	(kW)	220V, 3 Ø	380V, 3 Ø
Helix V5202/1	3000	2020	1620	1210	345	800	1200	500	500	1900	1900	11	-	21.7
Helix V5202	3000	2020	1620	1210	345	800	1200	500	500	1900	1900	15	-	27.4
Helix V5203/2	3000	2020	1620	1210	345	1000	1200	500	500	1900	1900	18.5	-	33.6
Helix V5203	3000	2035	1620	1210	345	1000	1300	500	500	1900	2100	22	-	39.5
Helix V5204/2	3000	2035	1620	1210	345	1000	1300	500	500	1900	2100	22	-	39.5
Helix V5204	3500	2035	1620	1210	345	*	*	*	*	*	*	30	-	53.5
Helix V5205/2	3500	2035	1620	1210	345	*	*	*	*	*	*	30	-	53.5
Helix V5205	3500	2045	1620	1210	345	*	*	*	*	*	*	37	-	67.1
Helix V5206/2	3500	2045	1620	1210	345	*	*	*	*	*	*	37	-	67.1

Pressure Boosting Systems

PUZeN Series

Outline & Electrical data

PUZeN MVI 1800(2 pumps)

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
						PZU/ZC		PZM/ZC		PZU/ZC		P2	(A)	
						(kW)	220V, 3 Ø	380V, 3 Ø	(kW)	220V, 3 Ø	380V, 3			

Pressure Boosting Systems

PUZeN Series

Outline & Electrical data

PUZeN MVI 1800[5 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
												P2	(A)	
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø
MVI 1802	1600	1202	952	450	210	600	600	400	500	1400	1900	3.7	11.9	7.7
MVI 1803	1600	1202	952	450	210	600	600	400	500	1400	1900	5.5	18.8	10.9
MVI 1804	2400	1202	952	450	210	600	600	400	500	1400	1900	7.5	-	15.0
MVI 1804	2400	1212	952	450	210	800	1000	500	500	1900	1900	9	-	17.5
MVI 1806	2400	1212	952	450	210	800	1000	500	500	1900	1900	11	-	21.7
MVI 1807	2400	1212	952	450	210	800	1000	500	500	1900	1900	15	-	27.4
MVI 1808	2400	1212	952	450	210	800	1000	500	500	1900	1900	15	-	27.4
MVI 1809	2400	1214	952	450	210	1000	1000	500	500	1900	1900	18.5	-	33.6
MVI 1810	2400	1214	952	450	210	1000	1000	500	500	1900	1900	18.5	-	33.6

PUZeN MVI 1800[6 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
												P2	(A)	
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø
MVI 1802	1900	1232	952	450	210	600	600	500	500	1900	1900	3.7	11.9	7.7
MVI 1803	1900	1232	952	450	210	600	800	500	500	1900	1900	5.5	18.8	10.9
MVI 1804	2900	1232	952	450	210	600	800	500	500	1900	1900	7.5	-	15.0
MVI 1804	2900	1244	952	450	210	800	1200	500	500	1900	1900	9	-	17.5
MVI 1806	2900	1244	952	450	210	800	1200	500	500	1900	1900	11	-	21.7
MVI 1807	2900	1244	952	450	210	800	1200	500	500	1900	1900	15	-	27.4
MVI 1808	2900	1244	952	450	210	800	1200	500	500	1900	1900	15	-	27.4
MVI 1809	2900	1302	952	450	210	1000	1200	500	500	1900	1900	18.5	-	33.6
MVI 1810	2900	1302	952	450	210	1000	1200	500	500	1900	1900	18.5	-	33.6

PUZeN MVI 3600[2 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
												P2	(A)	
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø
MVI 3602	1000	1700	1420	1050	310	600	600	400	400	1400	1400	7.5	-	15.0
MVI 3603	1000	1700	1420	1050	310	600	600	500	500	1900	1900	11	-	21.7
MVI 3604	1000	1712	1420	1050	310	600	600	500	500	1900	1900	15	-	27.4
MVI 3605	1000	1712	1420	1050	310	600	600	500	500	1900	1900	18.5	-	33.6
MVI 3606	1000	1712	1420	1050	310	600	600	500	500	1900	1900	22	-	39.5
MVI 3608C	1100	1722	1420	1050	325	*	*	*	*	*	*	30	-	53.5
MVI 3609C	1100	1722	1420	1050	325	*	*	*	*	*	*	30	-	53.5

Pressure Boosting Systems

PUZeN Series

Outline & Electrical data

PUZeN MVI 3600[3 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
												P2	(A)	
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø
MVI 3602	1500	1700	1420	1050	310	600	600	400	400	1400	1400	7.5	-	15.0
MVI 3603	1500	1700	1420	1050	310	600	800	500	500	1900	1900	11	-	21.7
MVI 3604	1500	1712												

Pressure Boosting Systems

PUZeN Series

Outline & Electrical data

PUZeN MVI 3600[6 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3 Ø	380V, 3 Ø
MVI 3602	3000	1820	1420	1050	310	600	800	500	500	1900	1900	7.5	-	15.0
MVI 3603	3000	1820	1420	1050	310	800	1200	500	500	1900	1900	11	-	21.7
MVI 3604	3000	1835	1420	1050	310	800	1200	500	500	1900	1900	15	-	27.4
MVI 3605	3000	1835	1420	1050	310	1000	1200	500	500	1900	1900	18.5	-	33.6
MVI 3606	3500	1835	1420	1050	310	1000	1300	500	500	1900	2100	22	-	39.5
MVI 3608C	3500	1845	1420	1050	325	*	*	*	*	*	*	30	-	53.5
MVI 3609C	3500	1845	1420	1050	325	*	*	*	*	*	*	30	-	53.5

Pressure Boosting Systems

PUZeN Series

Outline & Electrical data

PUZeN MVI 6000[4 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3 Ø	380V, 3 Ø
MVI 6002	2000	1976	1576	1166	320	800	800	500	500	1900	1900	9	-	17.5
MVI 6003	2000	1976	1576	1166	320	800	800	500	500	1900	1900	15	-	27.4
MVI 6004	2000	1991	1576	1166	320	800	800	500	500	1900	1900	18.5	-	33.6
MVI 6005	2000	1991	1576	1166	320	800	1000	500	500	1900	1900	22	-	39.5
MVI 6006C	2300	1991	1576	1166	320	*	*	*	*	*	*	30	-	53.5
MVI 6007C	2300	1991	1576	1166	320	*	*	*	*	*	*	30	-	53.5
MVI 6008C	2300	2001	1576	1166	320	*	*	*	*	*	*	37	-	67.1

PUZeN MVI 6000[2 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3 Ø	380V, 3 Ø
MVI 6002	1000	1856	1576	1166	320	600	600	500	500	1900	1900	9	-	17.5
MVI 6003	1000	1856	1576	1166	320	600	600	500	500	1900	1900	15	-	27.4
MVI 6004	1000	1868	1576	1166	320	600	600	500	500	1900	1900	18.5	-	33.6
MVI 6005	1000	1868	1576	1166	320	600	600	500	500	1900	1900	22	-	39.5
MVI 6006C	1100	1868	1576	1166	320	*	*	*	*	*	*	30	-	53.5
MVI 6007C	1100	1868	1576	1166	320	*	*	*	*	*	*	30	-	53.5
MVI 6008C	1100	1878	1576	1166	320	*	*	*	*	*	*	37	-	67.1

PUZeN MVI 6000[5 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3 Ø	380V, 3 Ø
MVI 6002	2500	1976	1576	1166	320	800	1000	500	500	1900	1900	9	-	17.5
MVI 6003	2500	1976	1576	1166	320	800	1000	500	500	1900	1900	15	-	27.4
MVI 6004	2500	1991	1576	1166	320	1000	1000	500	500	1900	1900	18.5	-	33.6
MVI 6005	2500	1991	1576	1166	320	1000	1200	500	500	1900	1900	22	-	39.5
MVI 6006C	2900	1991	1576	1166	320	*	*	*	*	*	*	30	-	53.5
MVI 6007C	2900	1991	1576	1166	320	*	*	*	*	*	*	30	-	53.5
MVI 6008C	2900	2001	1576	1166	320	*	*	*	*	*	*	37	-	67.1

PUZeN MVI 6000[3 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3 Ø	380V, 3 Ø
MVI 6002	1500	1906	1576	1166	320	600	800	500	500	1900	1900			

Pressure Boosting Systems

PUZeN Series

Outline & Electrical data

PUZeN MVI 9000[2 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø
MVI 9001/1	1100	1930	1600	1150	360	600	600	400	400	1400	1400	7.5	-	15.0
MVI 9001	1100	1930	1600	1150	360	600	600	500	500	1900	1900	11	-	21.7
MVI 9002/2	1100	1930	1600	1150	360	600	600	500	500	1900	1900	15	-	27.4
MVI 9002/1	1100	1930	1600	1150	360	600	600	500	500	1900	1900	18.5	-	33.6
MVI 9002	1100	1930	1600	1150	360	600	600	500	500	1900	1900	22	-	39.5
MVI 9003/2	1100	1930	1600	1150	360	600	600	500	500	1900	1900	22	-	39.5
MVI 9003/1	1100	1940	1600	1150	360	*	*	*	*	*	*	30	-	53.5
MVI 9003	1100	1940	1600	1150	360	*	*	*	*	*	*	30	-	53.5
MVI 9004/2	1100	1940	1600	1150	360	*	*	*	*	*	*	37	-	67.1
MVI 9004/1	1100	1940	1600	1150	360	*	*	*	*	*	*	37	-	67.1
MVI 9004	1100	1940	1600	1150	360	*	*	*	*	*	*	45	-	79.8
MVI 9005/2	1100	1940	1600	1150	360	*	*	*	*	*	*	45	-	79.8
MVI 9005/1	1100	1940	1600	1150	360	*	*	*	*	*	*	45	-	79.8
MVI 9005	1100	1940	1600	1150	360	*	*	*	*	*	*	45	-	79.8

PUZeN MVI 9000[3 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø
MVI 9001/1	1700	2000	1600	1150	360	600	600	400	400	1400	1400	7.5	-	15.0
MVI 9001	1700	2000	1600	1150	360	600	800	500	500	1900	1900	11	-	21.7
MVI 9002/2	1700	2000	1600	1150	360	600	800	500	500	1900	1900	15	-	27.4
MVI 9002/1	1700	2000	1600	1150	360	600	800	500	500	1900	1900	18.5	-	33.6
MVI 9002	1700	2000	1600	1150	360	800	800	500	500	1900	1900	22	-	39.5
MVI 9003/2	1700	2000	1600	1150	360	800	800	500	500	1900	1900	22	-	39.5
MVI 9003/1	1700	2015	1600	1150	360	*	*	*	*	*	*	30	-	53.5
MVI 9003	1700	2015	1600	1150	360	*	*	*	*	*	*	30	-	53.5
MVI 9004/2	1700	2015	1600	1150	360	*	*	*	*	*	*	37	-	67.1
MVI 9004/1	1700	2015	1600	1150	360	*	*	*	*	*	*	37	-	67.1
MVI 9004	1700	2015	1600	1150	360	*	*	*	*	*	*	45	-	79.8
MVI 9005/2	1700	2015	1600	1150	360	*	*	*	*	*	*	45	-	79.8
MVI 9005/1	1700	2015	1600	1150	360	*	*	*	*	*	*	45	-	79.8
MVI 9005	1700	2015	1600	1150	360	*	*	*	*	*	*	45	-	79.8

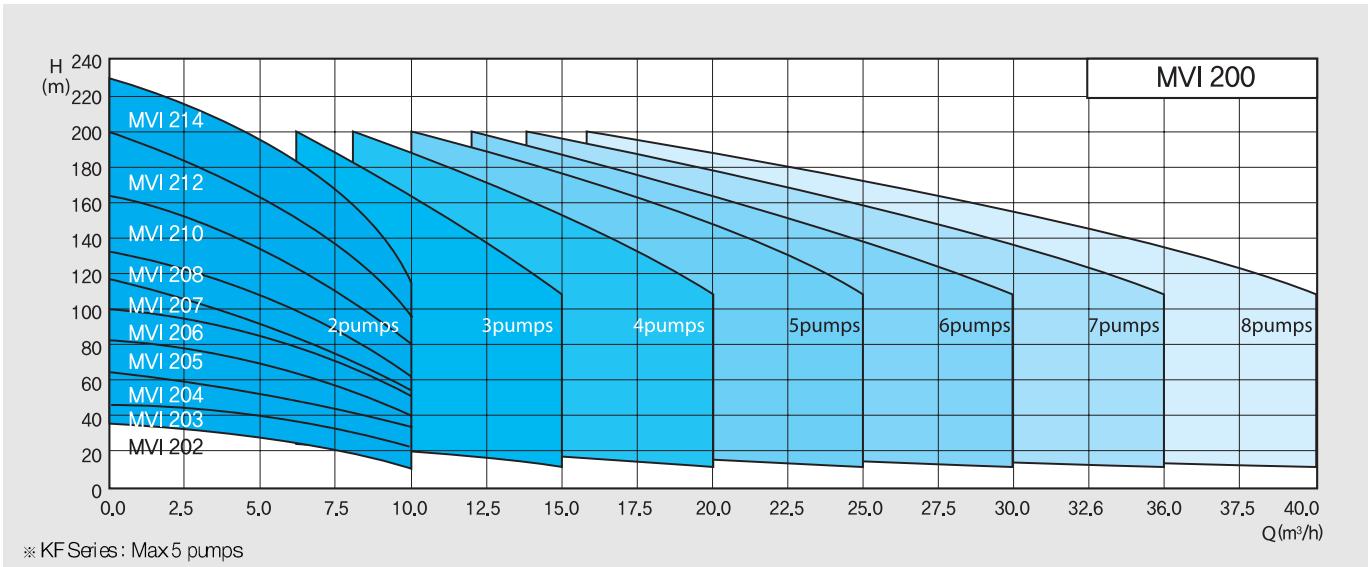
PUZeN MVI 9000[4 pumps]

PUZeN	L	A	B	C	D	E		W		H		IP54 Class F		
						PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	PZU/ZC	PZM/ZC	(kW)	220V, 3Ø	380V, 3Ø
MVI 9001/1	2300	2045	1600	1150	360	600	600	400	500	1400	1900	7.5	-	15.0
MVI 9001	2300	2045	1600	1150	360	800	800	500	500	1900	1900	11	-	21.7
MVI 9002/2	2300	2045	1600	1150	360	800	800	500	500	1900	1900	15	-	27.4
MVI 9002/1	2300	2045	1600	1150	360	800	800	500	500	1900	1900	18.5	-	33.6
MVI 9002	2300	2045	1600	1150	360	1000	1000	500	500	1900	1900	22	-	39.5
MVI 9003/2	2300	2045	1600	1150	360	1000	500	500	500	1900	1900	22	-	39.5
MVI 9003/1	2300	2062	1600	1150	360	*	*	*	*	*	*	30	-	53.5
MVI 9003	2300	2062	1600	1150	360	*	*	*	*	*	*	30	-	53.5
MVI 9004/2	2300	2062	1600	1150	360	*	*	*	*	*	*	37	-	67.1
MVI 9004/1	2300	2062	1600	1150	360	*	*	*	*	*	*	37	-	67.1
MVI 9004	2300	2062	1600	1150	360	*	*	*	*	*	*	45	-	79.8
MVI 9005/2	2300	2062	1600	1150	360	*	*	*	*	*	*	45	-	79.8
MVI 9005/1	2300	2062	1600	1150	360	*	*	*	*	*	*	45	-	79.8
MVI 9005	2300	2062	1600	11										

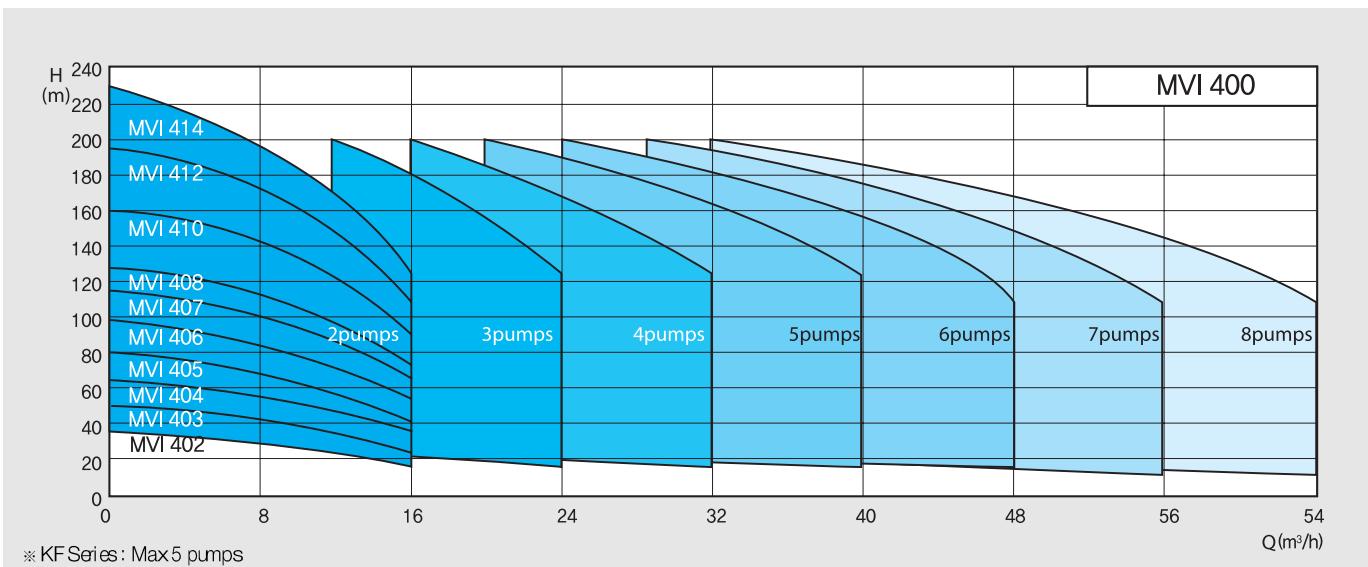
Pressure Boosting Systems

PUZeN Series

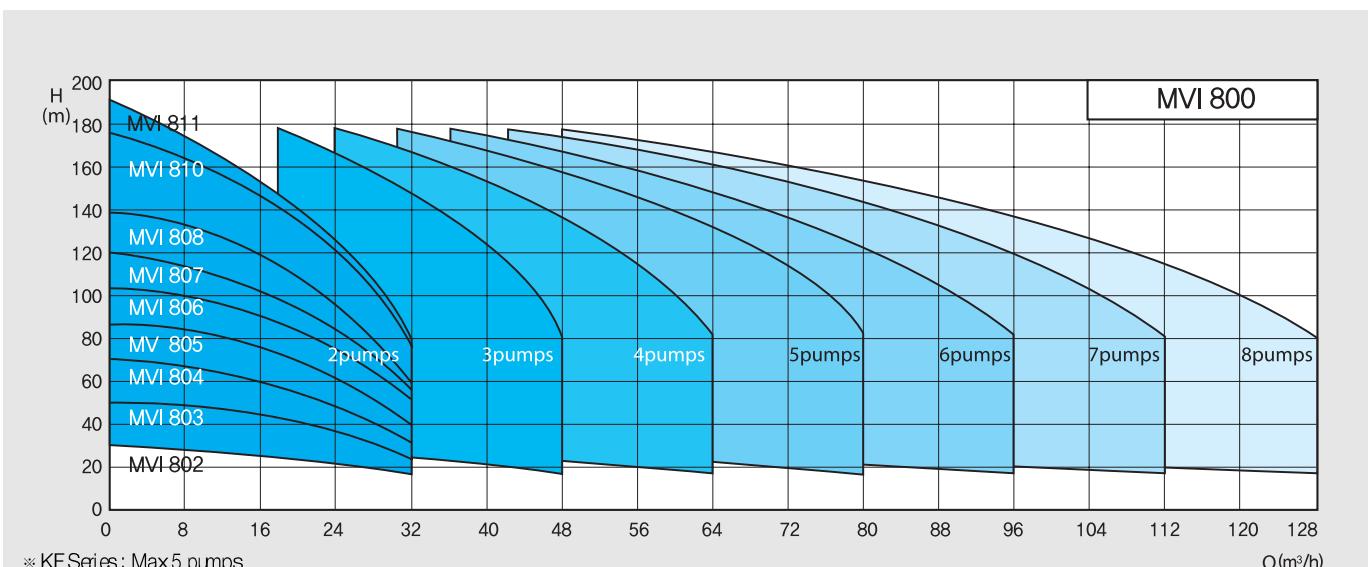
PUZeN / KF Series Performance Curve



※ KF Series: Max 5 pumps



※ KF Series: Max 5 pumps

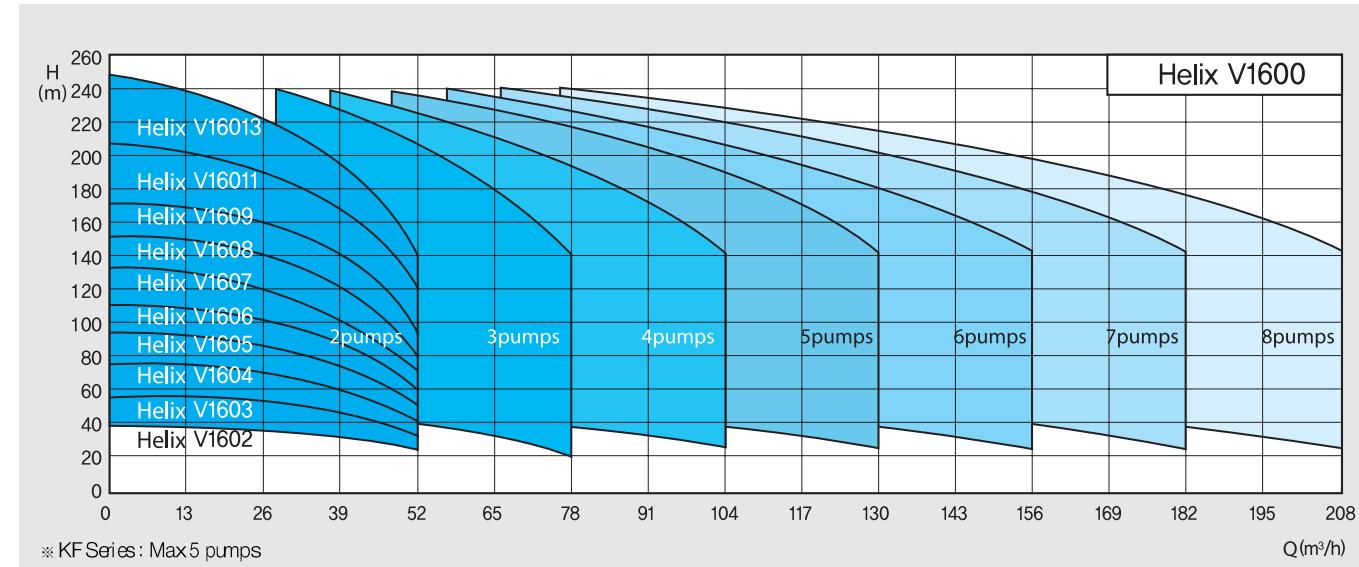


※ KF Series: Max 5 pumps

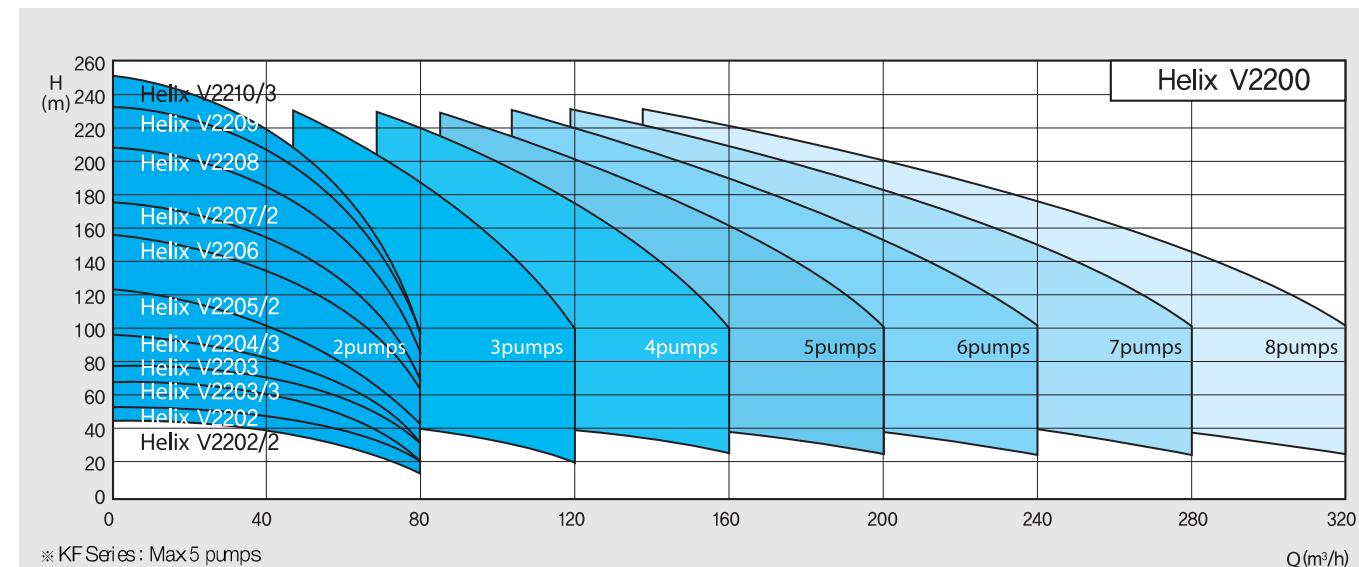
Pressure Boosting Systems

PUZeN Series

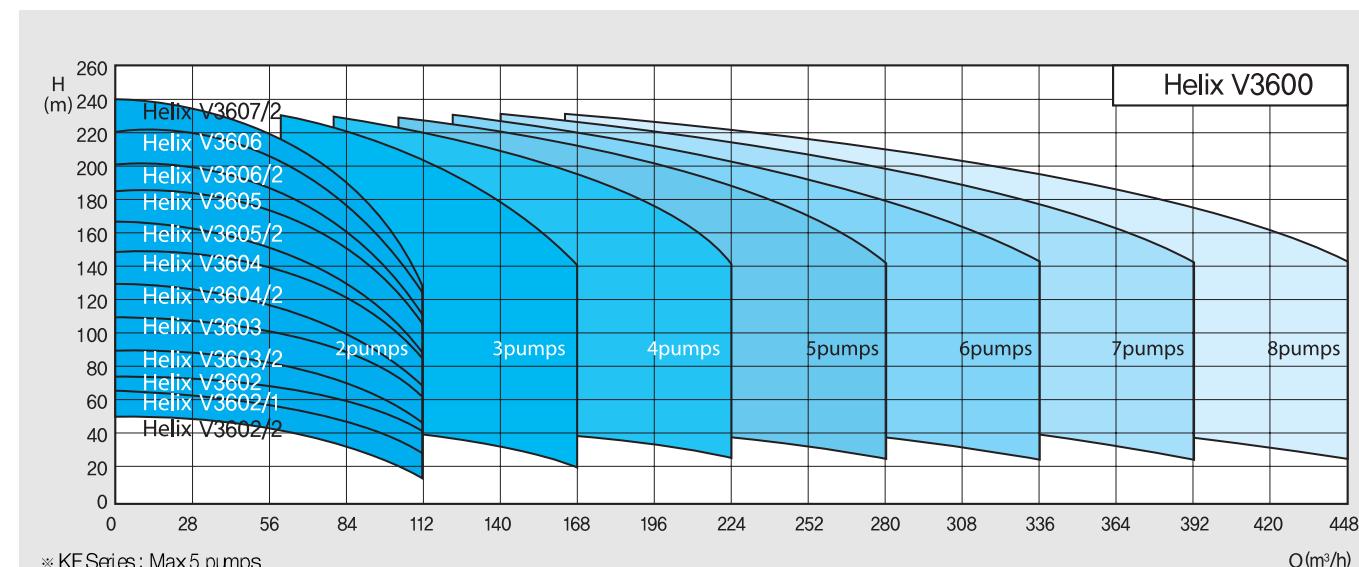
PUZeN / KF Series Performance Curve



※ KF Series: Max 5 pumps



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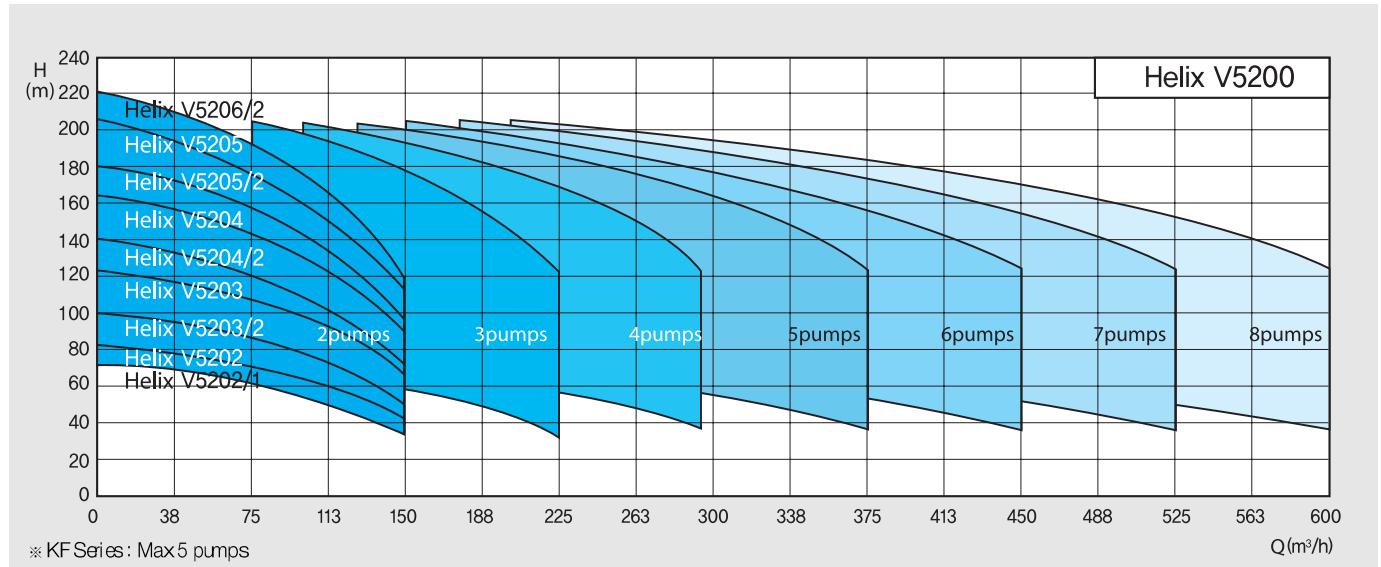


※ KF Series: Max 5 pumps

Pressure Boosting Systems

PUZeN Series

PUZeN / KF Series Performance Curve

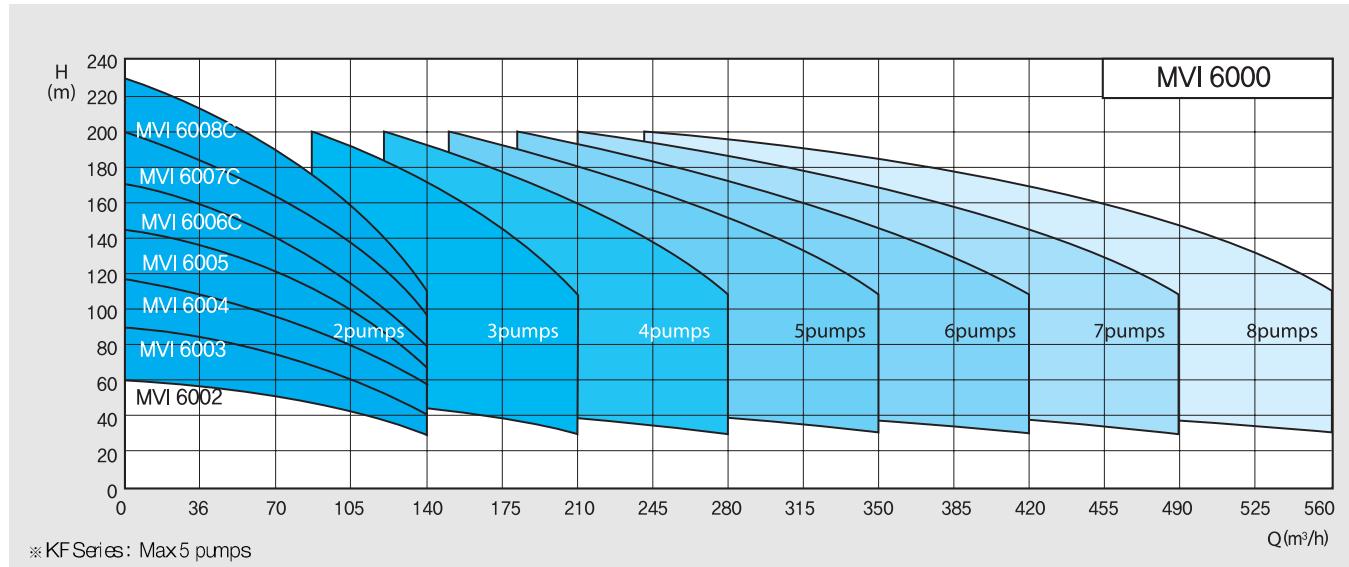


※ KF Series: Max 5 pumps

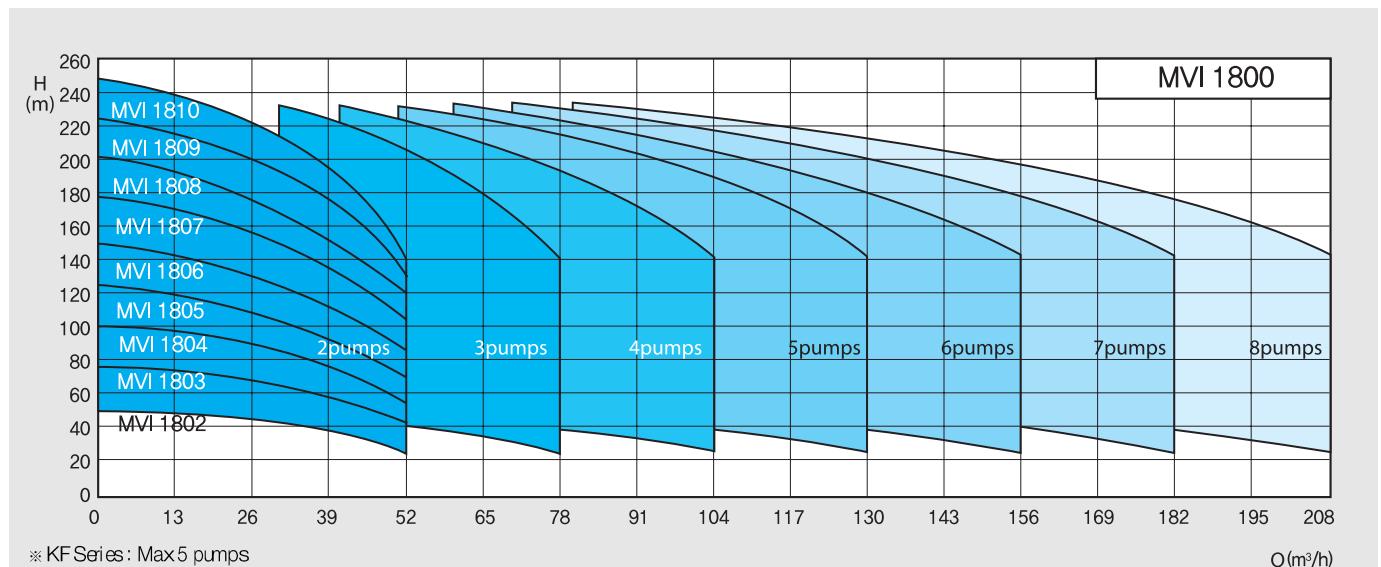
Pressure Boosting Systems

PUZeN Series

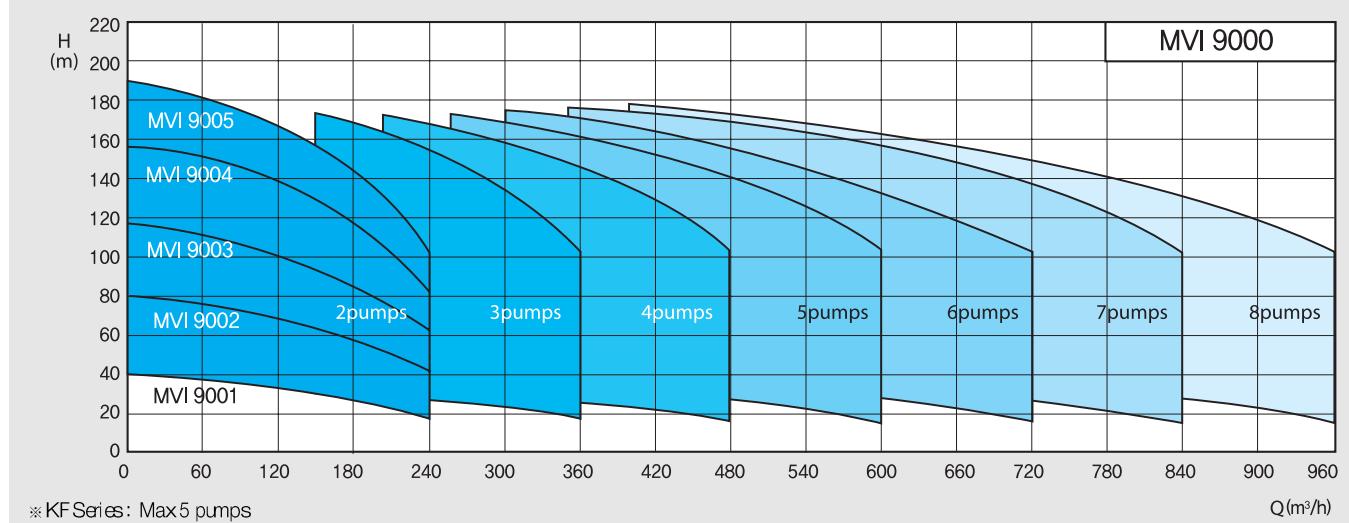
PUZeN / KF Series Performance Curve



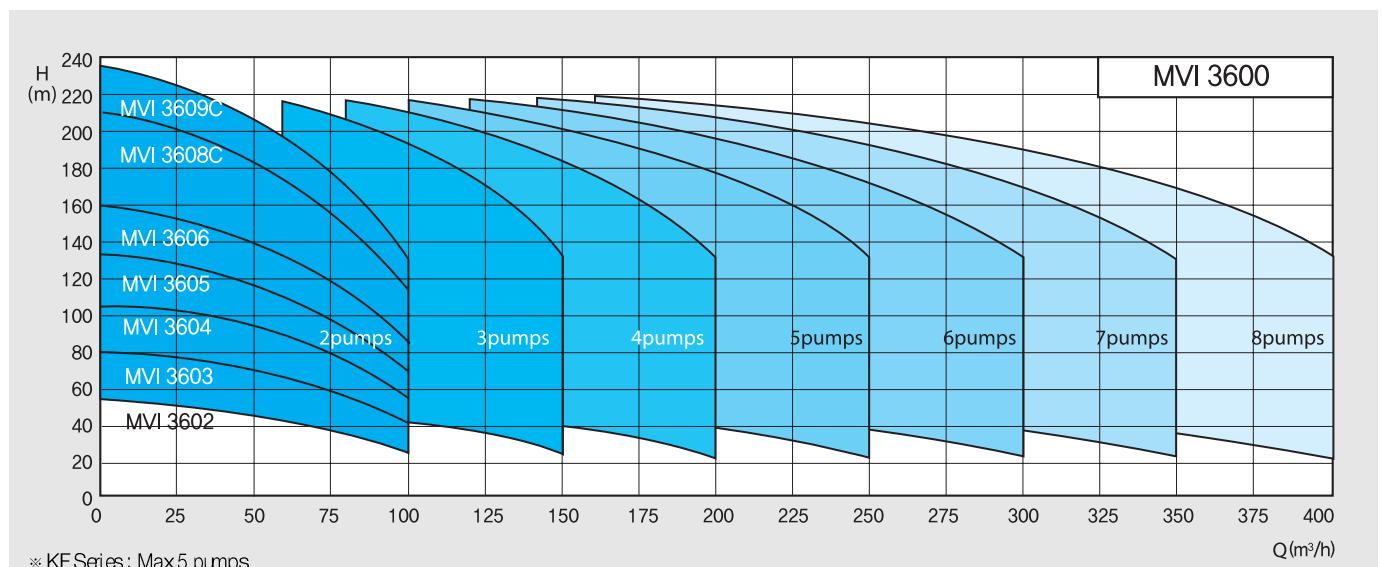
※ KF Series: Max 5 pumps



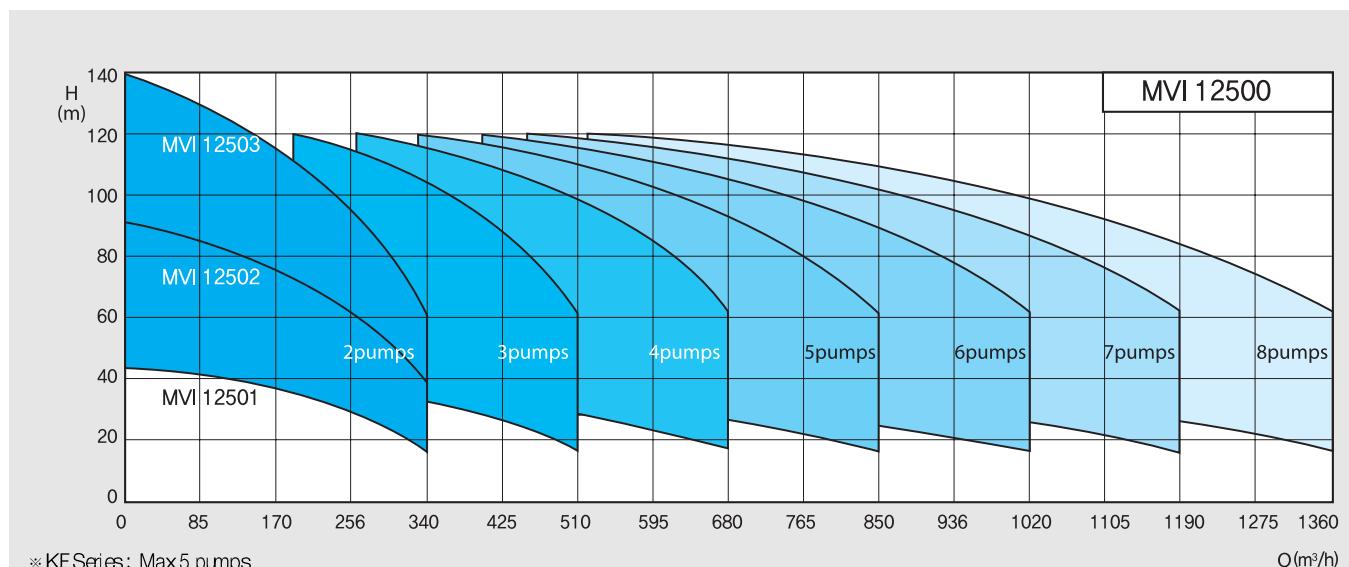
※ KF Series: Max 5 pumps



※ KF Series: Max 5 pumps



※ KF Series: Max 5 pumps



※ KF Series: Max 5 pumps

Pressure Boosting Systems

KF Series

Product Introduction



Application

Suitable for places where variation of head and capacity is required, such as building, apartment, factory in water supply, fire fighting, pressure feeding application.

Standard spec.

Control type	by inverter
Power source	3 phases, 380V, 60Hz
Pump	Vertical multistage pump
Pressure detection	Non contacting pressure sensor
Fluids	Cleanwater(0~70°C)

Installation requirement

Location	Indoor
Operating temperature	0 ~ 40°C
Ambient temperature	-10 ~ 50°C
Humidity	Max. RH 85%

Pressure Boosting Systems

KF Series

Booster System-KF Series

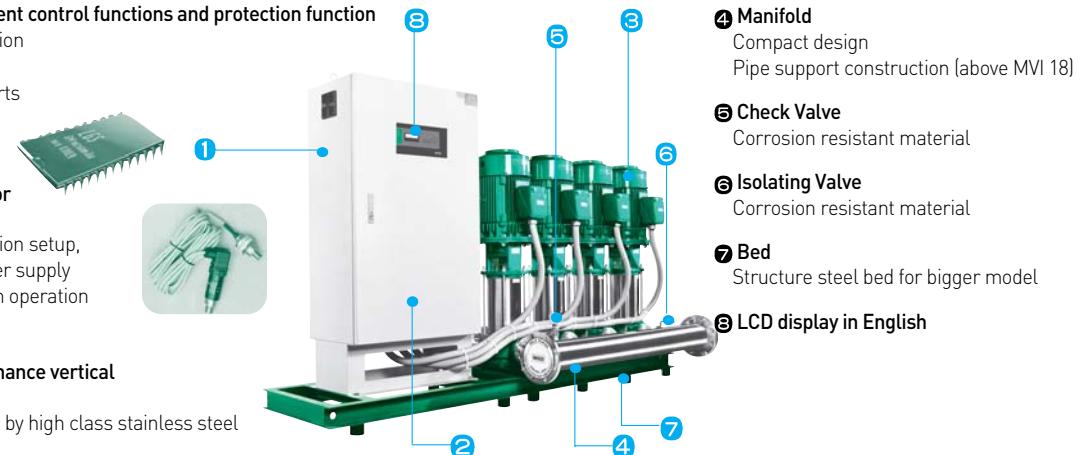
- ① Control Panel with excellent control functions and protection function
 - Various operation / protection
 - Various options
 - Module design for each parts
 - Motor protection

② Selection of semiconductor pressure transmitter

It enables a parallel operation setup, smooth operation and water supply without any difference from operation pressure

③ High quality, high performance vertical multistage pump

Minimizing the loss of fluid by high class stainless steel material



KF Series that has various functions such as power-saving, excellent self-inspection, Remote control.

	KF Series	Features
Features	Multi function Inverter Control	High function, High class Micro Computer control, plenty functions and accurate control
Pump	Vertical Multistage pump	Savng installation space
Pressure Detection	Non-contacting pressure transmitter	Non-contacting type, high reliability, and long lifetime

Main Function	Restart after power cut	Able to select automatic re-start or manual re-start. In case of automatic re-start, it prevents fluctuation of pressure in discharge side.
	Sequential Operation	Pump with least operating hours shall start first and stop last to give equal load to each pumps
	Automatic emergency mode	Able to use common power source even controller breakdowns
	Skipping	When a certain pump breakdowns, it will be excluded in operation logic
	Pressure setting for activation, deactivation, Max and Shut-off	Easy to set and prevent any possible error. It prevents pumps from higher pressure than pre-set max pressure
	Avoiding frequent operation	It shall delay (in sec) the operation to prevent pressure hunting and frequent operation
	Compensation of friction loss	Pressure drop due to friction loss and activation of secondary pumps will be compensated automatically
	Status display	It shall display various operating parameters and error log
	Data back-up	Even after power cut, operating parameters will be saved
	PID Control	It keeps discharge pressure constant by fast responding PID control, in case of frequency control.
Main Protection	Spare circuit board (Option)	It can be installed as a spare board
	Max output setting for inverter	Maximum output of inverter can be set lower than rated
	Motor protection	It prevent from overload, open phase, overcurrent
	Monitoring pressure transmitter	It monitors status of pressure transmitter.
	Dry running protection	In case of water shortage in suction side, it will prevent from dry running and shall be able to delay response time
	Prevention of high temperature and damage due to freezing (Option)	Temperature sensor is installed to prevent from freezing and operation at shut off pressure
	Super Operation	In case of breakdown of inverter, it will automatically switch to pressure controlling (Diaphragm expansion tank shall be installed in discharge side to protect the system and piping)
	Main/Stand by	Pre-setted stand by pump shall only work when main pumps breakdown.
	Schedule operation	Able to set operation parameters for each day of a week.
	Displaying Operation hours	It shall display operation hours of each pump
	Displaying error log	It shall display timely / daily / monthly / yearly.

Pressure Boosting Systems

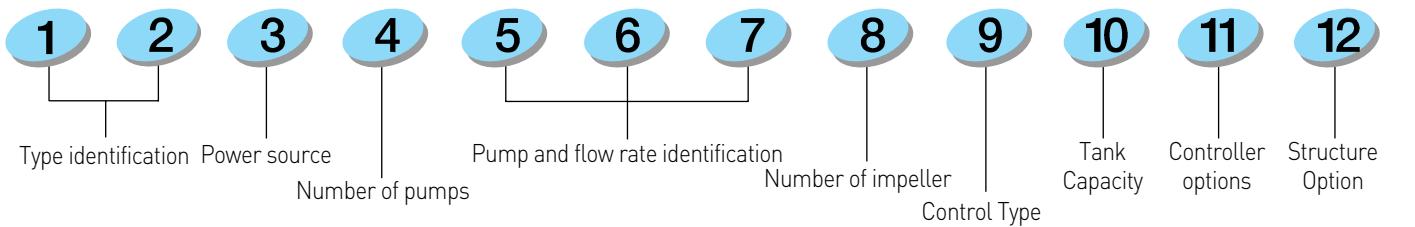
KF Series

Product Introduction

Features and Functions

Control type	Inverter control	Installation condition	• Location : indoor
Pump	Vertical multistage pump		• Operating temperature :0°C~40°C • Ambient temperature : -10°C~50°C • Humidity : Max RH 85%
Power source	3 phase 380V 60Hz[Others : Option] (Controller : single phase 220v, 60hz)	Control panel	• Automatic/manual mode operation • Protection • Emergency operation • Indication of all sorts of status • Built-in output terminal in the event of fault • Inverter selection (Limited to the speed control)
Pressure detection	Non-contact pressure sensor		
Applicable fluid	Clean water(0°C~70°C)		
Number of controllable pump	2~5		

Booster System Identification



Type Identification

Identification	Type	Remark
KF	Booster System	Speed Control

Power Source

No. of pump

Identification	Number of Pump	Identification	Number of Pump
2	2 Set	4	4 Set
3	3 Set	5	5 Set

Water flow rate

• Pump Series

Pump type

Identification	Option
H	HELIX V Series
E	High efficiency MVI Series
W	Standard MVI Series

Number of Impeller

Control type

Identification	Number of impeller	Identification	Number of impeller
2	2 stages	9	9 stages
3	3 stages	A	10 stages
4	4 stages	B	11 stages
5	5 stages	C	12 stages
6	6 stages	D	13 stages
7	7 stages	E	14 stages
8	8 stages		

Tank Capacity

Identification	Option
1	100 l Pressure Tank
2	170 l Pressure Tank
3	310 l Pressure Tank
5	450 l Pressure Tank

Controller Options

Structure Options

Identification	Option
S	Stainless steel Panel
L	ELCB For Each
F	Noise Filter
D	Stand alone Panel
R	EOCR

Identification	Option
1	expansion of suction manifold
2	expansion of discharge manifold
3	STS 304 Bed
I	insulated bolt / Nut
T	SSbed(below MVI18)