



2025 Catalogue Smart i-Pumps





WE KNOW WHAT YOU NEED

In a rapidly changing market, there is no substitute for experience. **Aqua Solutions** can provide professional services based on our many years of experience in the water treatment industry. Learn more about our solutions and find out what fits you best!

Partnering with the best.....



Smart i-Pump



Intelligent Smart Box

Range of iPumps

Intelligent Smart Box i-Pumps

Superior Advantage



APP cloud platform control system

The intelligent APP cloud platform management system, through the connection of smart phones and water pumps, controls the start and stop of the water pump anytime and anywhere, sets the working pressure and checks the pump's condition.



Multiple auto-protection

Machine malfunction protection, overvoltage protection, overload protection, undervoltage protection, motor phase loss protection, lightening protection, water shortage protection and overcurrent protection.



Wide range of voltages

Rated voltage 220V, the working voltage from 130V to 280V.

The pumps will automatically stop if the voltage is lower than 130V and re-start automatically when the voltage reaches 160V. The pump will stop automatically if the voltage is higher than 280V and restart automatically when the voltage is down to 260V.



Smart i-Pump



Intelligent Smart Box i-Pumps



Three working modes

There are three working modes:

**Booster Up

**Booster Down

**Timing / Filling the tank

The modes can be switched freely according to their own water conditions.



Constant pressure, enjoy

The water pressure of the pump line is constant due to the permanent magnet motor technology. The pressure is accurate and constant. At no time will the water flow fluctuate.



Low noise

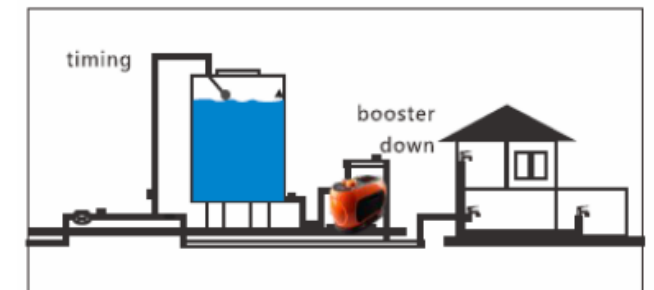
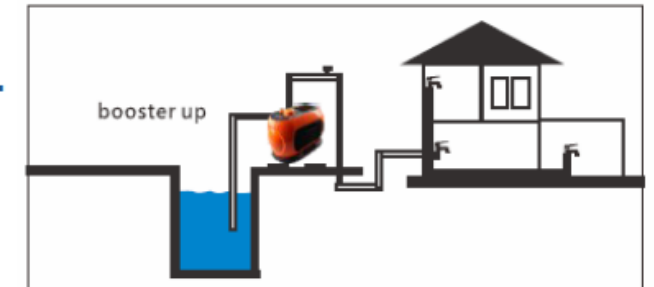
With the new sine wave noise reduction technology, the noise level of the pump operation is reduced.



Energy-Saving (low carbon)

The pump automatically adjusts the speed according to the user's water consumption, and the power consumption is greatly reduced. When the water pressure is sufficient, the pump will not start. When the water pressure is not sufficient the pump will automatically run and start working to pressurize the application.

Smart i-Pump



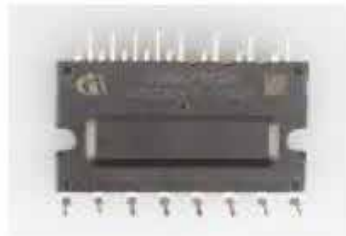
Intelligent Smart Box i-Pumps

Smart i-Pump



Real "core" meaning

The inverter protection classification is IPX4. The casing is sealed with rubber seals protecting the internal circuit board, motherboard, module, chip, etc. The internal use of an Infineon module, high-end chip, stabilises performance, far more than similar products. The unique heat radiation invention patent, together with the motor fan blades ensures that the temperature of the module and chip are maintained. Special voltage type pressure transmitter have imported ceramic chips and matching inverter circuit designs. There are no magnetic components.



Infineon Module



High-end Chip



Pressure Transmitter



*Dedicated Integrated
Pressure Transmitter*

Intelligent Smart Box i-Pumps

Smart i-Pump

The control panel of the inverter is aesthetically designed and suitably sized.

The inverter design features pressure adjustment, one-button detection, hydration interval setting automatic fault display and child lock.

The inverter is equipped with leakage detection and run-dry protection alarms.



Intelligent Smart Box i-Pumps

Smart i-Pump



Invertor DC Motor

"Submarine Class" waterproof, safe and reliable

The core technology of the permanent magnet moisture-proof motor originated from Italy. The stator and rotor are sealed by a unique sealing process.

The motor cannot short circuit due to the ingress of water.

High speed, high efficiency, low energy consumption

Low temperature rise, strong magnetic

A high-grade cold-rolled silicon steel sheet keeps the motor temperature as low as 50°C or less, The high-performance ferrite magnetic steel prevents irreversible demagnetization.



Smart Box Self-priming Centrifugal i-Pump

Smart i-Pump



AQS-LDB-Z

Performance Data

Model	Power KW	Current A	Rated. Q m³/h	Max. Q m³/h	Rated. H m	Max. H m	Suction	Optimal Working Point kgf/cm²
AQS-25LDB4.5-24Z	0.9	6.5	4.5	7.5	24	30	5	1.5-2.4
AQS-32LDB6.5-20Z	1.1	7.3	6.5	9.5	20	30	5	1.5-2.4
AQS-25LDB4.5-24ZS	0.9	6.5	4.5	7.5	24	30	5	1.5-2.4
AQS-32LDB6.5-20ZS	1.1	7.3	6.5	9.5	20	30	5	1.5-2.4

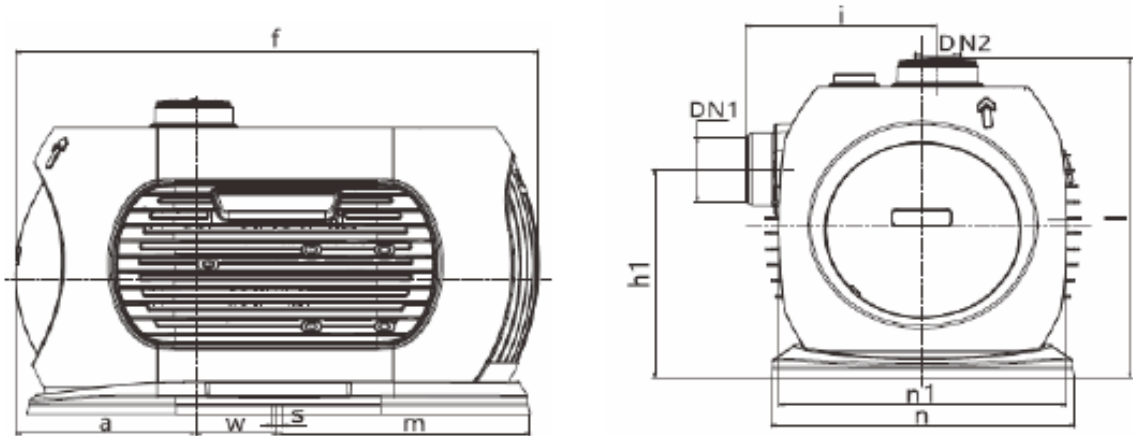


Smart Box Self-priming Centrifugal i-Pump

Smart i-Pump

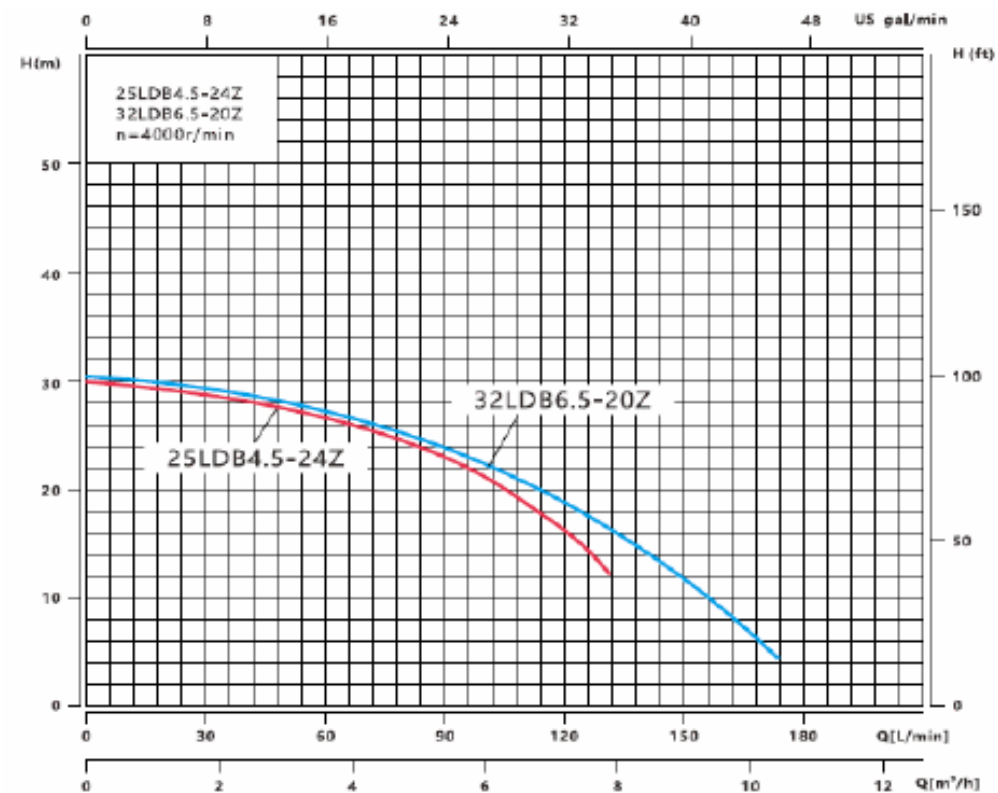
AQS-LDB-Z

Installation Dimensions



Model	DN1	DN2	Dimensions (mm)										Ctn Size (Cm)	G.W. kg
			a	f	h1	i	l	m	n	n1	w	s		
AQS-25LDB4.5-24Z	G1	G1	146	426	185.5	147	284.50	205	244	228	68.5	9	48 x 30.5 x 34.5	15.6
AQS-32LDB6.5-20Z	G1 1/4	G1 1/4	146	426	185.5	147	284.50	205	244	228	68.5	9	48 x 30.5 x 34.5	15.4
AQS-25LDB4.5-24ZS	G1	G1	146	426	185.5	147	284.50	205	244	228	68.5	9	48 x 30.5 x 34.5	16.4
AQS-32LDB6.5-20ZS	G1 1/4	G1 1/4	146	426	185.5	147	284.50	205	244	228	68.5	9	48 x 30.5 x 34.5	16.2

Performance Curve



Smart Box Multi Stage i-Pump



Working Range

- ** Liquid: clean liquids without suspended solids
- ** Liquid temperature: 0°C - 60°C
- ** Ambient temperature: <40°C
- ** Maximum pressure: 10 bar
- ** Continuous service: S1
- ** Insulation: B
- ** Protection: IP X4



Applications

- ** Household water supply
- ** Water supply system
- ** Cooling system
- ** Boost system

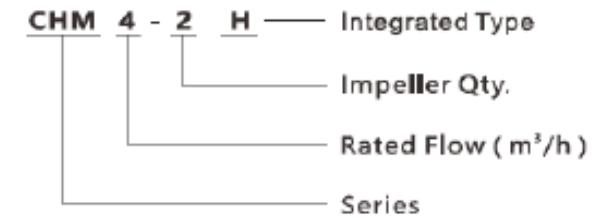
AQS-CHM-H



Smart i-Pump



Model Instruction



Features

- ** Constant water pressure, low noise
- ** S.S Multi-stage centrifugal pump
- ** Multi-mode intelligent controller
- ** Permanent magnet variable frequency motor
- ** APP cloud platform
- ** LCD touch display screen

Performance Data

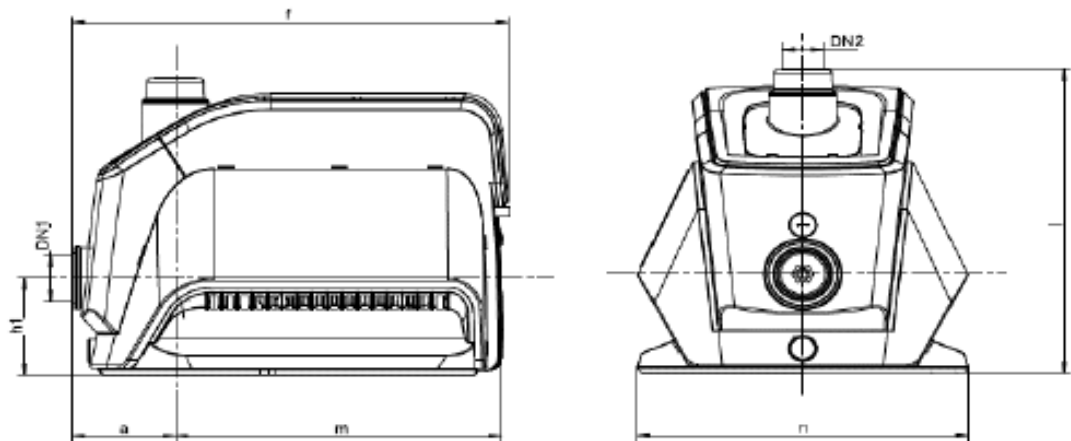
Model	Power KW	Current A	Rated. Q m ³ /h	Max. Q m ³ /h	Rated. H m	Max. H m	Inlet / Outlet	Optimal Working Point kgf/cm ²
AQS-CHM4-2H	0.75	8.0	4.0	8.0	30	37	1.25"x 1"	1.5 - 3.5

Smart Box Multi Stage i-Pump

AQS-CHM-H

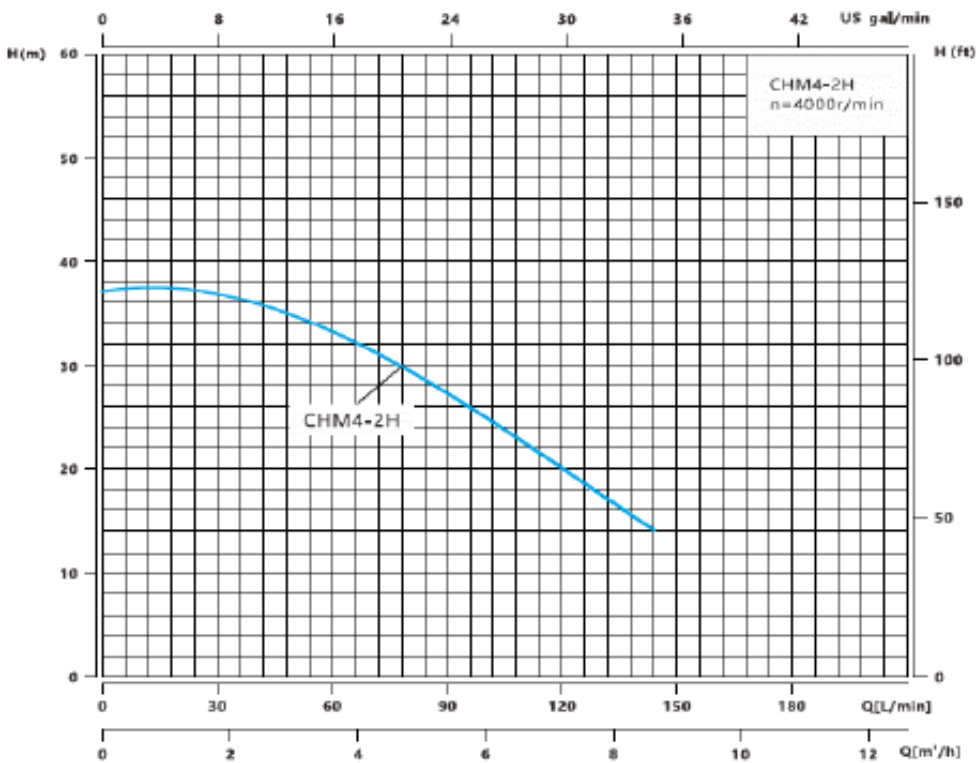
Smart i-Pump

Installation Dimensions



Model	DN1	DN2	Dimensions (mm)						Ctn Size (Cm)	G.W. kg
			a	f	h1	l	m	n		
AQS-CHM4-2H	G1 1/4	G1	86.5	366	90	275	273	271	44 x 33.5 x 34	11

Performance Curve



Multi-Stage Centrifugal i-Pump

Smart i-Pump



AQS-CHM-DCH



Working Range

- ** Liquid: clean liquids without suspended solids
- ** Liquid temperature: 0°C - 60°C
- ** Ambient temperature: <40°C
- ** Maximum pressure: 10 bar
- ** Continuous service: S1
- ** Insulation: B
- ** Protection: IP X4



Applications

- ** Household water supply
- ** Water supply system
- ** Cooling system
- ** Boost system



Model Instruction



Features

- ** Constant water pressure, low noise
- ** S.S Multi-stage centrifugal pump
- ** Multi-mode intelligent controller
- ** Permanent magnet variable frequency motor
- ** APP cloud platform
- ** LCD touch display screen

Performance Data

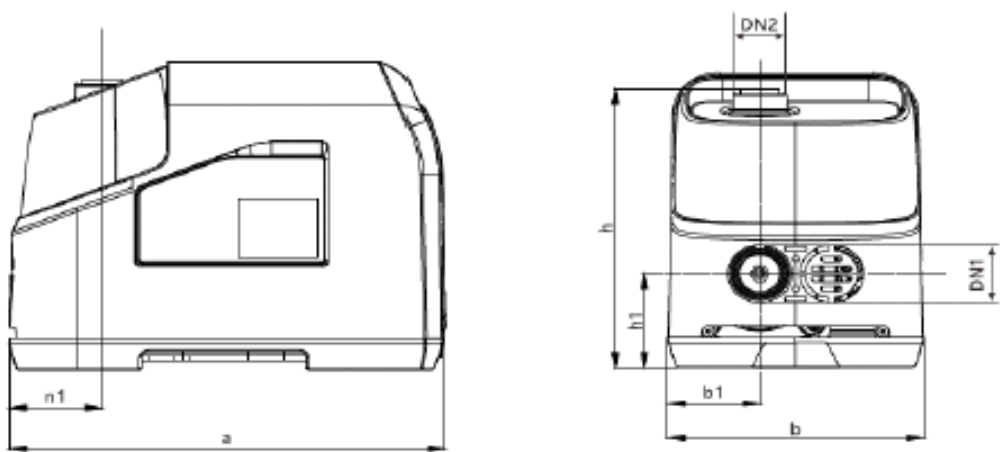
Model	Power KW	Current A	Rated. Q m ³ /h	Max. Q m ³ /h	Rated. H m	Max. H m	Inlet / Outlet	Optimal Working Point kgf/cm ²
AQS-CHM4-2DCH	0.75	8.0	4.0	8.0	30	37	1.25"x 1"	1.5 - 3.5

Multi-Stage Centrifugal i-Pump

Smart i-Pump

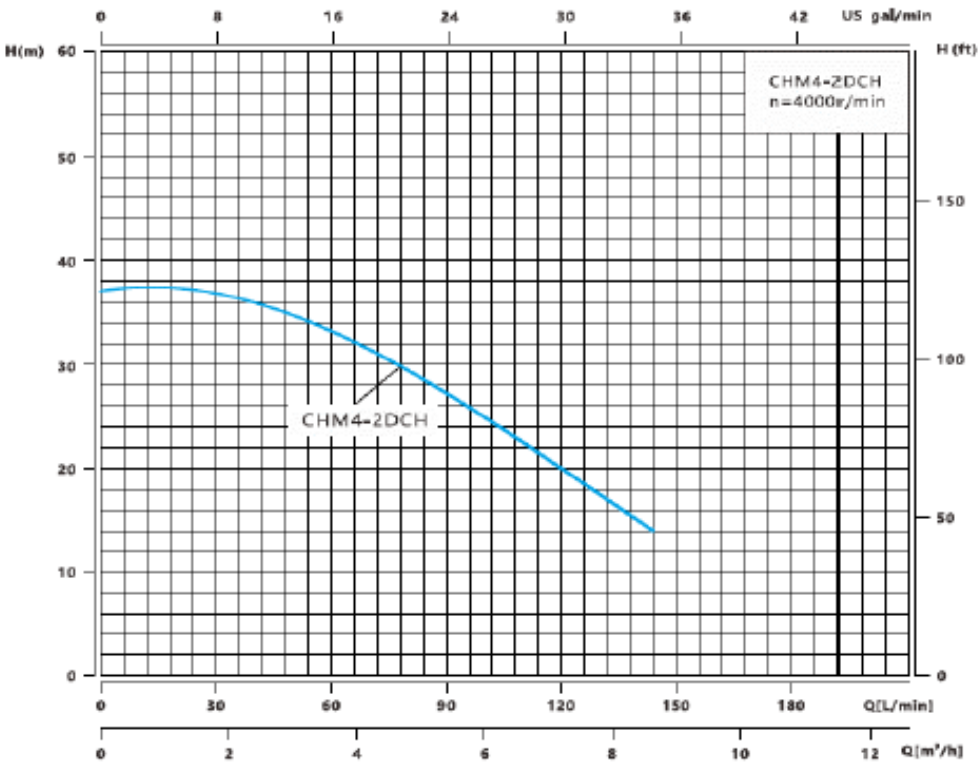
AQS-CHM-DCH

Installation Dimensions



Model	DN1	DN2	Dimensions (mm)			h	h1	n1	Ctn Size (Cm)	G.W. kg
			a	b	b1					
AQS-CHM4-2DCH	G1 1/4	G1	381	231	83	279	94	82	47 x 29.5 x 37	10.6

Performance Curve



Multi-Stage Centrifugal i-Pump

Smart i-Pump



Working Range

- ** Liquid: clean liquids without suspended solids
- ** Liquid temperature: 0°C - 60°C
- ** Ambient temperature: <40°C
- ** Maximum pressure: 10 bar
- ** Continuous service: S1
- ** Insulation: B
- ** Protection: IP X4

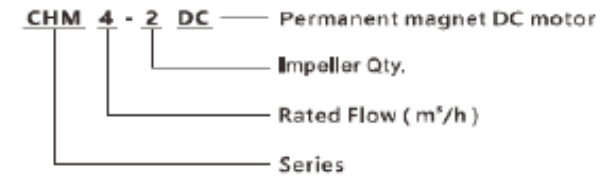


Applications

- ** Household water supply
- ** Water supply system
- ** Cooling system
- ** Boost system



Model Instruction



Features

- ** Constant water pressure, low noise
- ** S.S Multi-stage centrifugal pump
- ** Multi-mode intelligent controller
- ** Permanent magnet variable frequency motor
- ** APP cloud platform
- ** LCD touch display screen

AQS-CHM-DC



Performance Data

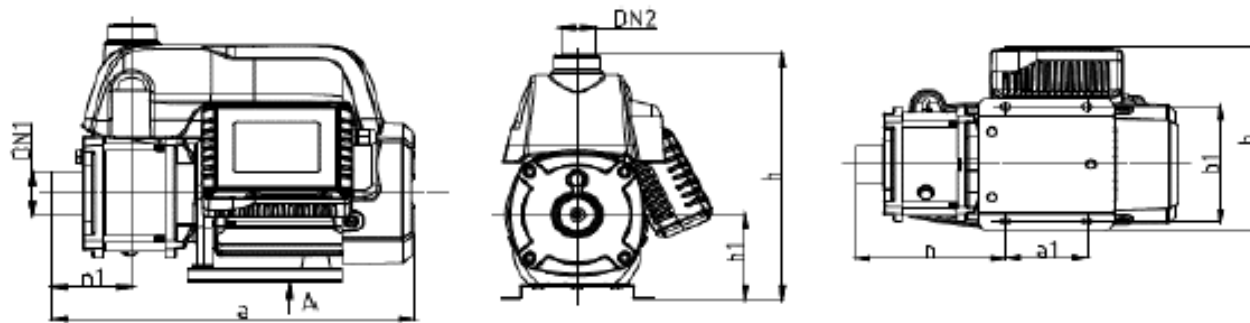
Model	Power KW	Current A	Rated. Q m³/h	Max. Q m³/h	Rated. H m	Max. H m	Inlet / Outlet	Optimal Working Point kgf/cm²
AQS-CHM4-2DC	0.75	8.0	4.0	8.0	30	37	1.25"x1"	1.5 - 3.5
AQS-CHM4-3DC	1.1	10	4.0	7.0	45	55	1.25"x1"	1.5 - 5.5

Multi-Stage Centrifugal i-Pump

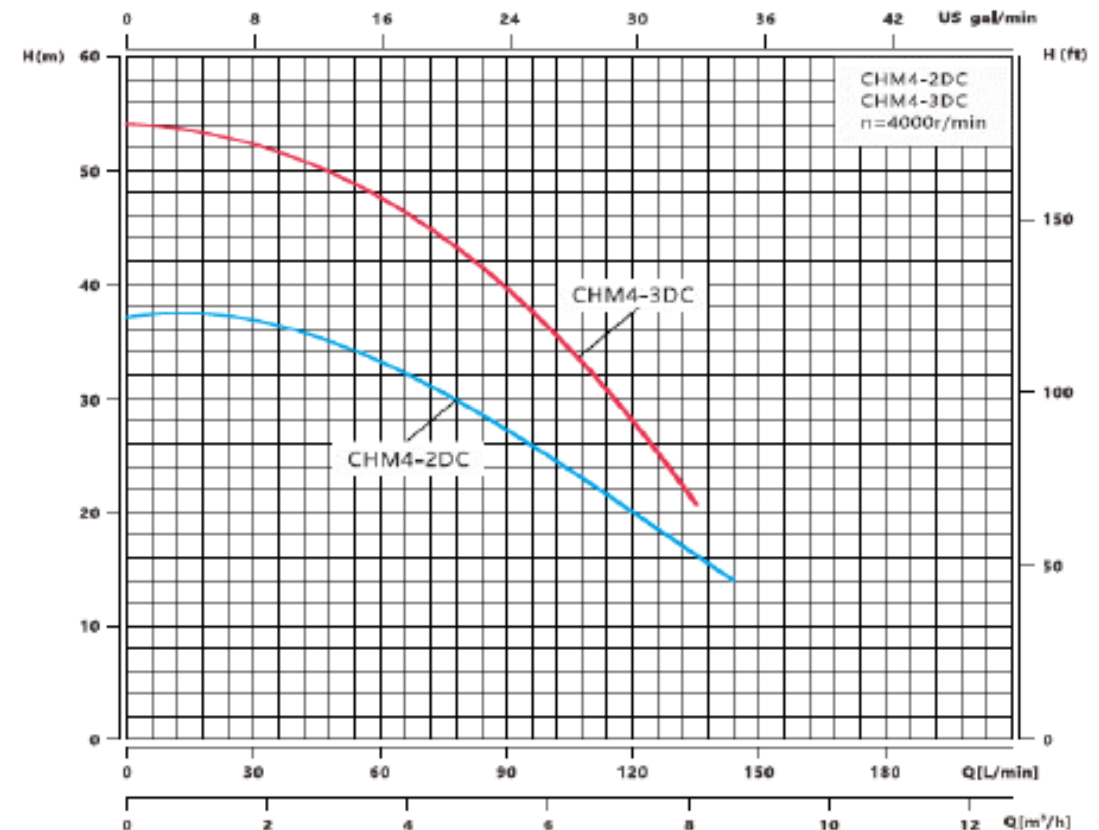
Smart i-Pump

AQS-CHM-DC

Installation Dimensions



Model	DN1	DN2	Dimensions (mm)								Ctn Size (Cm)	G.W. kg
			a	b	a1	b1	h	h1	n	n1		
AQS-CHM4-2DC	G1 1/4	G1	356	220	90	140	282	97	165	79	39.4 x 26 x 33	9.7
AQS-CHM4-3DC	G1 1/4	G1	410	220	90	140	282	97	165	128		



Self-priming Peripheral Smart i-Pump with plastic Smart i-Pump



Working Range

- ** Liquid: clean liquids without suspended solids
- ** Liquid temperature: 0°C - 60°C
- ** Ambient temperature: <40°C
- ** Maximum pressure: 10 bar
- ** Continuous service: S1
- ** Insulation: B
- ** Protection: IP X4

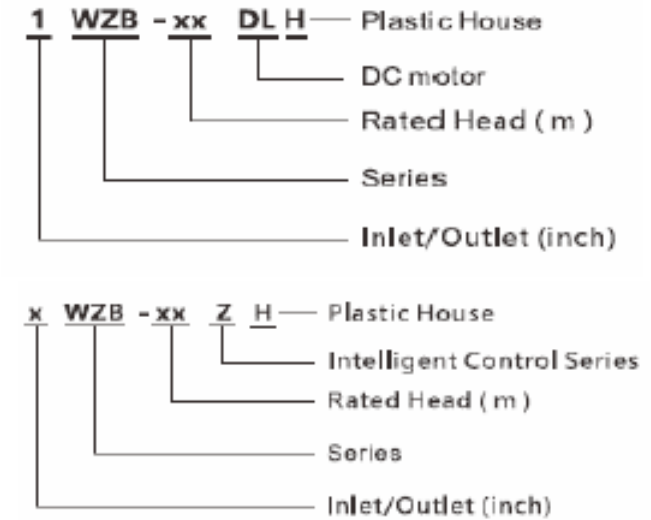


Applications

- ** Household water supply
- ** Water supply system
- ** Cooling system
- ** Boost system



Model Instruction



AQS-WZB-DLH/ZH

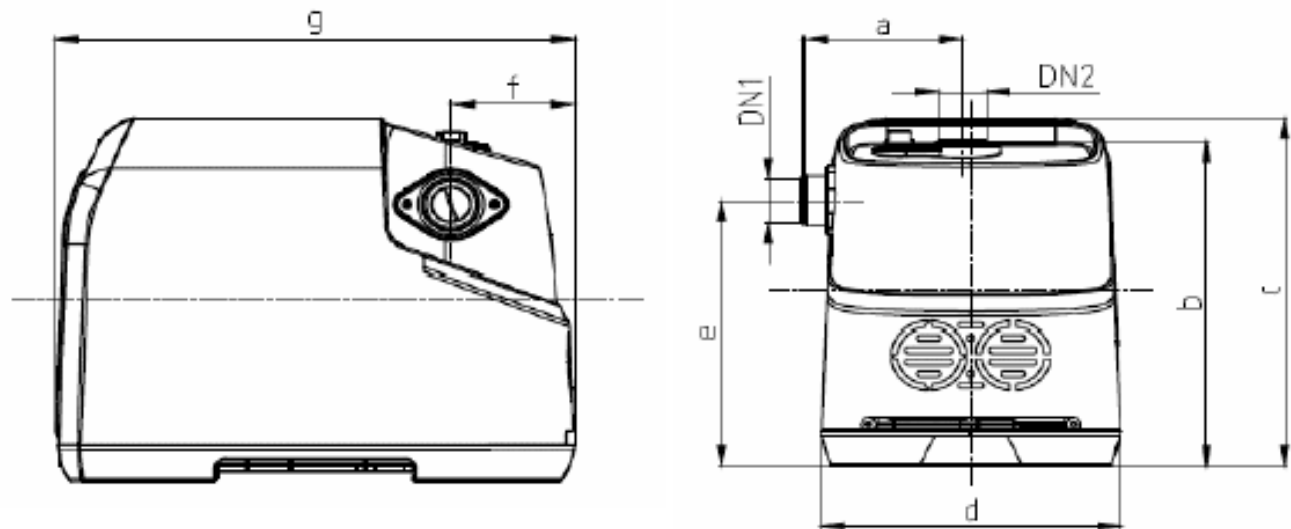


Model	Power KW	Current A	Rated. Q m³/h	Max. Q m³/h	Rated. H m	Max. H m	Suction m	Optimal Working Point kgf/cm²
AQS-1WZB-15DLH	0.37	2.7	1.5	2.5	15	33	8	1.5 - 2.8
AQS-1WZB-20DLH	0.55	4.0	2.0	4.0	20	38	8	1.5 - 3.3
AQS-1WZB-25DLH	0.75	5.3	2.5	4.8	25	45	8	1.5 - 4.0
AQS-1WZB-15ZH	0.37	1.6	1.0	2.1	15	30	8	1.5 - 2.5
AQS-1WZB-20ZH	0.55	2.5	1.5	3.3	20	38	8	1.5 - 3.0
AQS-1WZB-25ZH	0.75	4.0	2.0	4.0	25	45	8	1.5 - 3.5

Self-priming Peripheral Smart i-Pump with plastic Smart i-Pump

AQS-WZB-DLH/ZH

Installation Dimensions



Model	DN1	DN2	Dimensions (mm)							Ctn Size (Cm)	G.W. kg
AQS-1WZB-15DLH	G1	G1	a	b	c	d	e	f	g	47 x 29.5 x 37	
AQS-1WZB-20DLH	G1	G1	121.5	275.3	295.3	230	225	91.5	381.5	47 x 29.5 x 37	
AQS-1WZB-25DLH	G1	G1	129	263	295.3	230	213	87	381.5	47 x 29.5 x 37	
AQS-1WZB-15ZH	G1	G1	116	254	295.3	230	205	79	381.5	47 x 29.5 x 37	11.1
AQS-1WZB-20ZH	G1	G1	121.5	275.3	295.3	230	225	91.5	381.5	47 x 29.5 x 37	14.6
AQS-1WZB-25ZH	G1	G1	129	263	295.3	230	213	87	381.5	47 x 29.5 x 37	15.8

Self-priming Peripheral Smart i-Pump



Working Range

- ** Liquid: clean liquids without suspended solids
- ** Liquid temperature: 0°C - 60°C
- ** Ambient temperature: <40°C
- ** Maximum pressure: 10 bar
- ** Continuous service: S1
- ** Insulation: B
- ** Protection: IP X4



Applications

- ** Household water supply
- ** Water supply system
- ** Cooling system
- ** Boost system

AQS-WZB-DL

Performance Data

Model	Power KW	Current A	Rated. Q m ³ /h	Max. Q m ³ /h	Rated. H m	Max. H m	Suction m	Optimal Working Point kgf/cm ²
AQS-1WZB-15DL	0.37	2.7	1.5	2.5	15	33	8	1.5 - 2.8
AQS-1WZB-20DL	0.55	4.0	2.0	4.0	20	38	8	1.5 - 3.3
AQS-1WZB-25DL	0.75	5.3	2.5	4.8	25	45	8	1.5 - 4.0
AQS-1.5WZB-30DL	1.1	7.5	3.0	6.5	30	50	8	1.5 - 4.5

Smart i-Pump



Model Instruction



Features

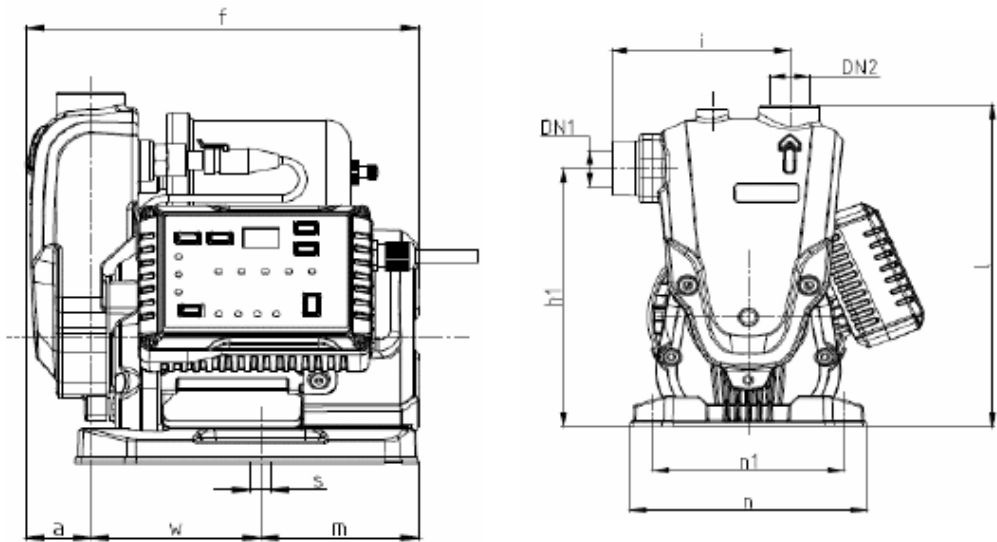
- ** Constant water pressure, low noise
- ** Self-priming peripheral pump
- ** Multi-mode intelligent controller
- ** Permanent magnet variable frequency motor
- ** APP cloud platform
- ** LCD touch display screen



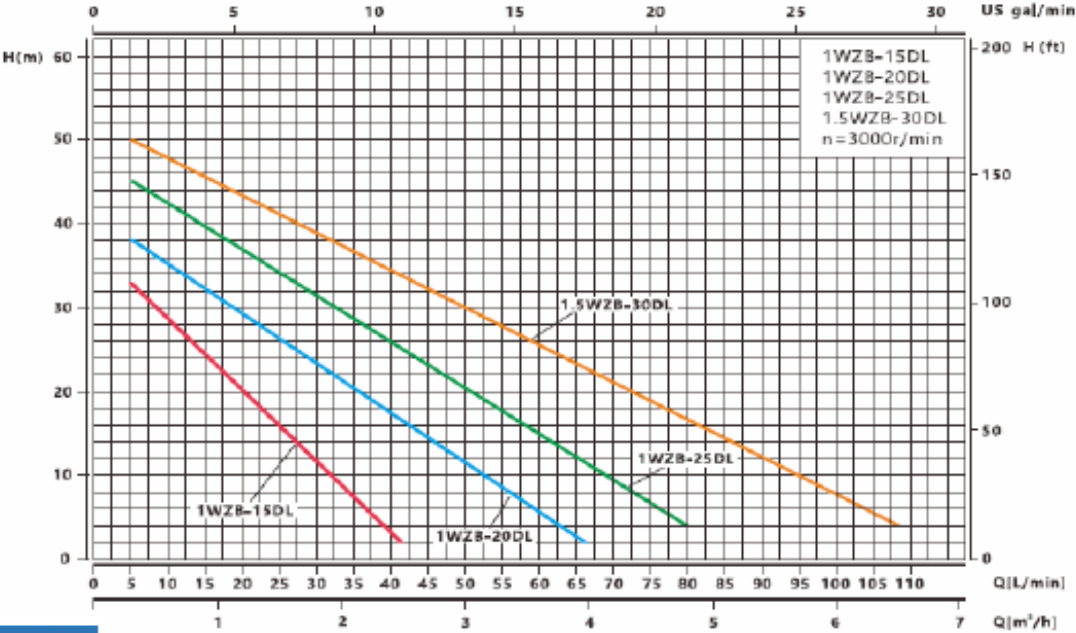
Self-priming Peripheral Smart i-Pump

Smart i-Pump

Installation Dimensions



Model	DN1	DN2	Dimensions (mm)									
			a	f	h1	i	l	m	n	n1	w	s
AQS-1WZB-15DL	G1	G1	41	243	187.5	116	237	99	170	138	103	13
AQS-1WZB-20DL	G1	G1	41	247	197	122	247	99	170	138	108	13
AQS-1WZB-25DL	G1	G1	41	245.5	206.5	129	257	99	170	138	106	13
AQS-1.5WZB-30DL	G1 ½	G1 ½	53.5	287	206.5	133.5	271.5	99	170	138	109	13



AQS-WZB-DL



Self-priming Peripheral Smart i-Pump

Smart i-Pump



AQS-WZB-Z



Working Range

- ** Liquid: clean liquids without suspended solids
- ** Liquid temperature: 0°C - 60°C
- ** Ambient temperature: <40°C
- ** Maximum pressure: 10 bar
- ** Continuous service: S1
- ** Insulation: B
- ** Protection: IP X4

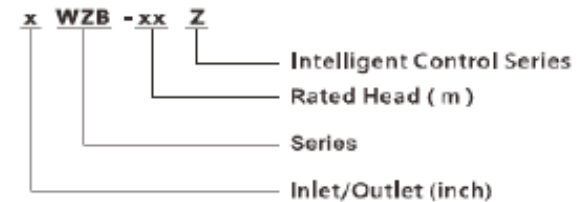


Applications

- ** Household water supply
- ** Water supply system
- ** Cooling system
- ** Boost system



Model Instruction



Features

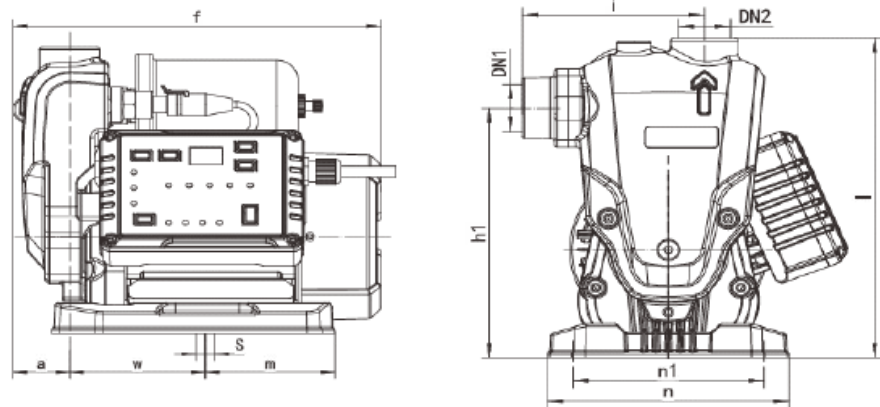
- ** Constant water pressure, low noise
- ** Self-priming peripheral pump
- ** Multi-mode intelligent controller
- ** AC variable frequency motor
- ** APP cloud platform (option)
- ** LCD touch display screen (option)

Model	Power KW	Current A	Rated. Q m ³ /h	Max. Q m ³ /h	Rated. H m	Max. H m	Suction m	Optimal Working Point kgf/cm ²
AQS-1WZB-15Z	0.37	1.6	1.0	2.1	15	30	8	1.5 - 2.5
AQS-1WZB-20Z	0.55	2.5	1.5	3.3	20	38	8	1.5 - 3.0
AQS-1WZB-25Z	0.75	4.0	2.0	4.0	25	45	8	1.5 - 3.5
AQS-1.5WZB-30Z	1.1	5.5	2.5	6.0	30	53	8	2.0 - 4.0

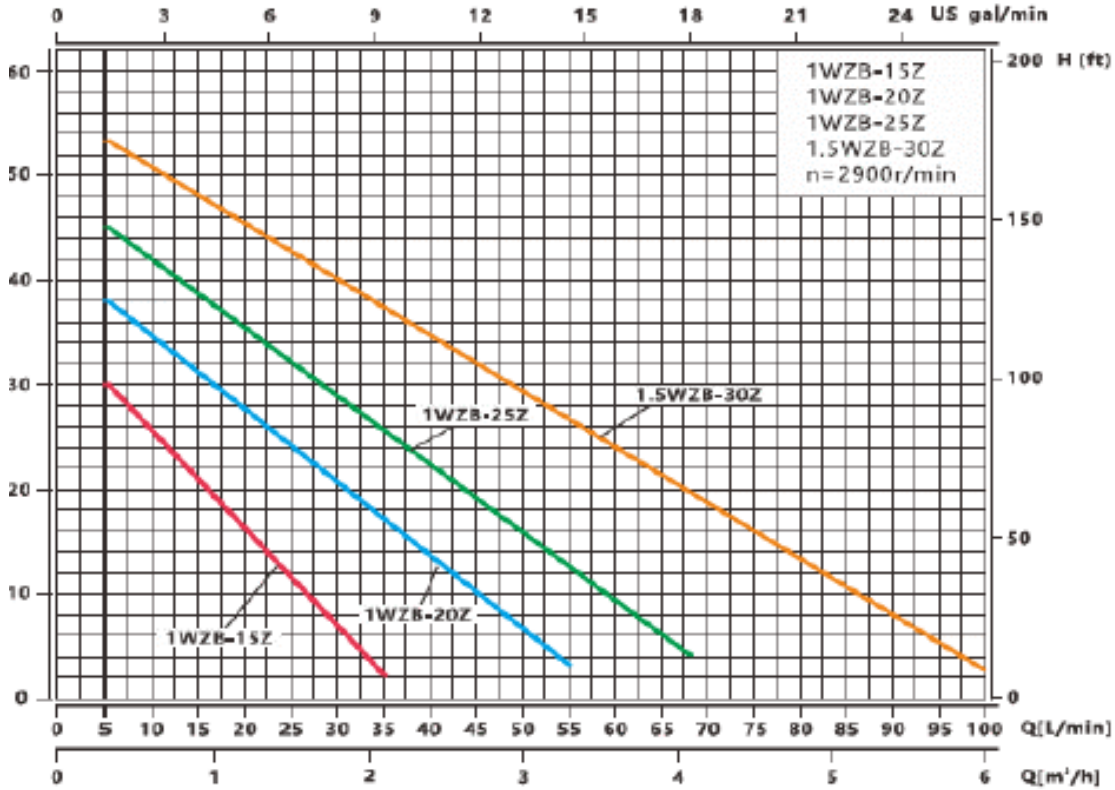
Self-priming Peripheral Smart i-Pump

Smart i-Pump

Installation Dimensions



Model	DN1	DN2	a	f	h1	i	l	m	n	n1	w	s	Ctn Size (Cm)	G.W. kg
AQS-1WZB-15Z	G1	G1	41	262	176.0	116	226	93	155	122	97	13.5	30 x 23.5 x 28	9.7
AQS-1WZB-20Z	G1	G1	41	280	197.0	122	247	99	170	138	108	13.5	31.8 x 23.7 x 31	13.2
AQS-1WZB-25Z	G1	G1	41	278	207.0	129	257	99	170	138	108	13.5	32.2 x 23.7 x 31	14.4
AQS-1.5WZB-30Z	G1 1/2	G1 1/2	53.5	329	219.0	134	284	112	196	156	121	13.5	37.5 x 27.5 x 34.5	21.6



AQS-WZB-Z

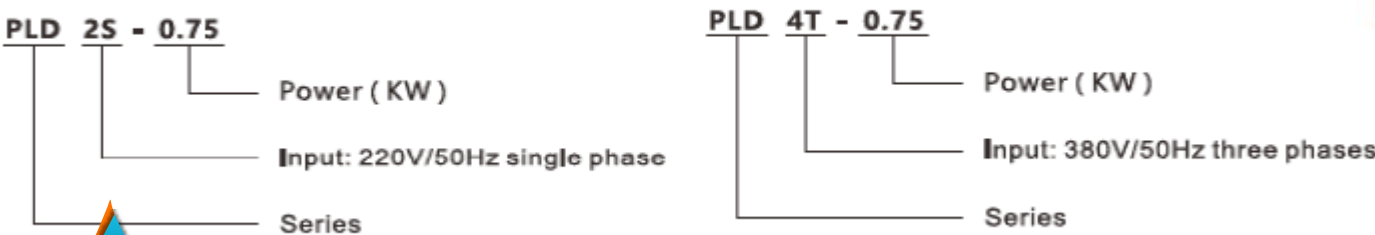
PLD Intelligent Inverter Controller

Smart i-Pump



AQS-PLD / PLDM

Model Instruction



Performance Data

Model	Power KW	Voltage	
		Power Input	Motor Input
AQS-PLD2S-0.75	0.75	220V / 50Hz 1PH	220V / 50Hz 3PH
AQS-PLD-2S-1.1	1.1	220V / 50Hz 1PH	220V / 50Hz 3PH
AQS-PLD-2S-1.5	1.5	220V / 50Hz 1PH	220V / 50Hz 3PH
AQS-PLD-2S-2.2	2.2	220V / 50Hz 1PH	220V / 50Hz 3PH
AQS-PLD-4T-0.75	0.75	220V / 50Hz 1PH	220V / 50Hz 3PH
AQS-PLD-4T-1.1	1.1	220V / 50Hz 1PH	220V / 50Hz 3PH
AQS-PLD-4T-1.5	1.5	220V / 50Hz 1PH	220V / 50Hz 3PH
AQS-PLD-4T-2.2	2.2	220V / 50Hz 1PH	220V / 50Hz 3PH
AQS-PLD-4T-4	4	220V / 50Hz 1PH	220V / 50Hz 3PH
AQS-PLD-4T-5.5	5.5	220V / 50Hz 1PH	220V / 50Hz 3PH
AQS-PLD-4T-7.5	7.5	220V / 50Hz 1PH	220V / 50Hz 3PH
AQS-PLD-4T-11	11	220V / 50Hz 1PH	220V / 50Hz 3PH
AQS-PLD-4T-15	15	220V / 50Hz 1PH	220V / 50Hz 3PH
AQS-PLD-4T-18.5	18.5	220V / 50Hz 1PH	220V / 50Hz 3PH
AQS-PLD-M-2S-2.2	2.2	220V / 50Hz 1PH	220V / 50Hz 3PH



Multi-Mode Inverter Module



AQS-LMZ / WMZ

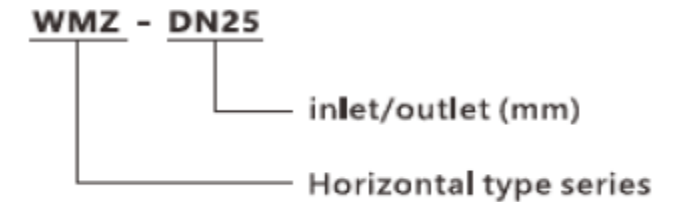
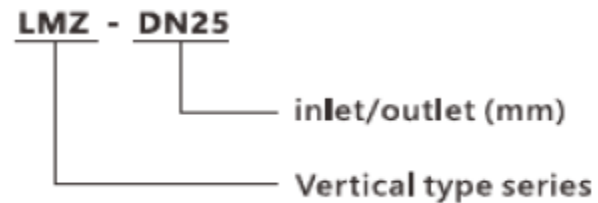


Smart i-Pump

Model
AQS-LMZ-DN25
AQS-LMZ-DN32
AQS-LMZ-DN40
AQS-LMZ-DN50
AQS-LMZ-DN65
AQS-LMZ-DN80

Model
AQS-WMZ-DN25
AQS-WMZ-DN40
AQS-WMZ-DN50

Model Instruction



Self-priming Peripheral Smart i-Pump

Smart i-Pump

AQS-LMZ / WMZ



Main Components of the Module





Contact Details

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