



HIGH EFFICIENCY INTELLIGENT PUMP **IE5 Motor**

INTELLIGENT FLOW FOR GOOD



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Ultra-High Efficiency



Low total cost



Low noise/vibration



Multi-function



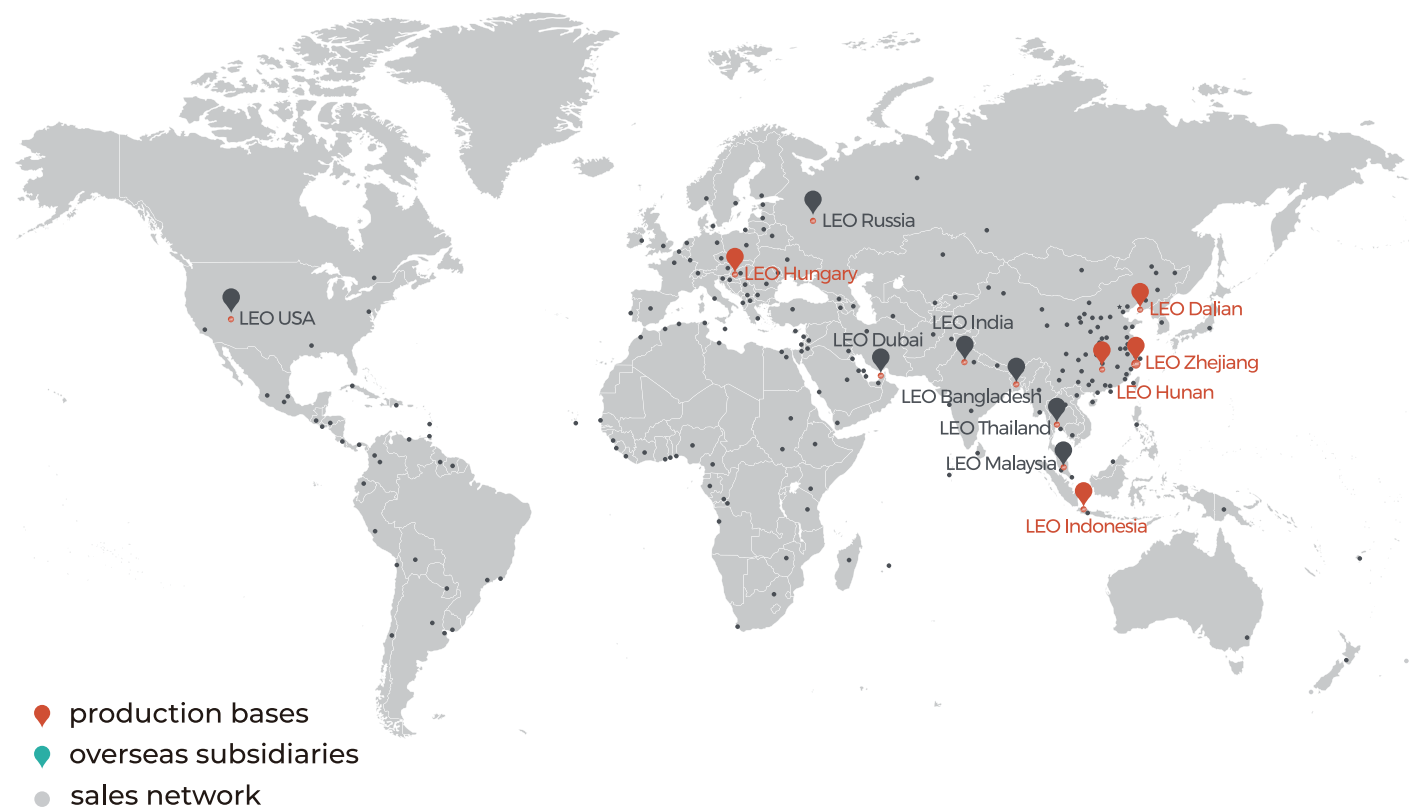
Low energy consumption

LEO reserves all the right of products modification without prior notification

2023 V2.0

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LEO WORLD



LEO IN NUMBERS

5

Production Bases

9

Overseas Subsidiaries

6,000,000⁺

Pumps Produced Yearly

150⁺

Countries

15,000⁺

Global Sales Outlets

500⁺

Million End-users Served

Ultra-High Efficiency

- ▶ IEC TS 60034-30-2-2016
- ▶ 50% less energy loss than IE2 motors
- ▶ Advanced permanent magnet synchronous motor

Low Investment

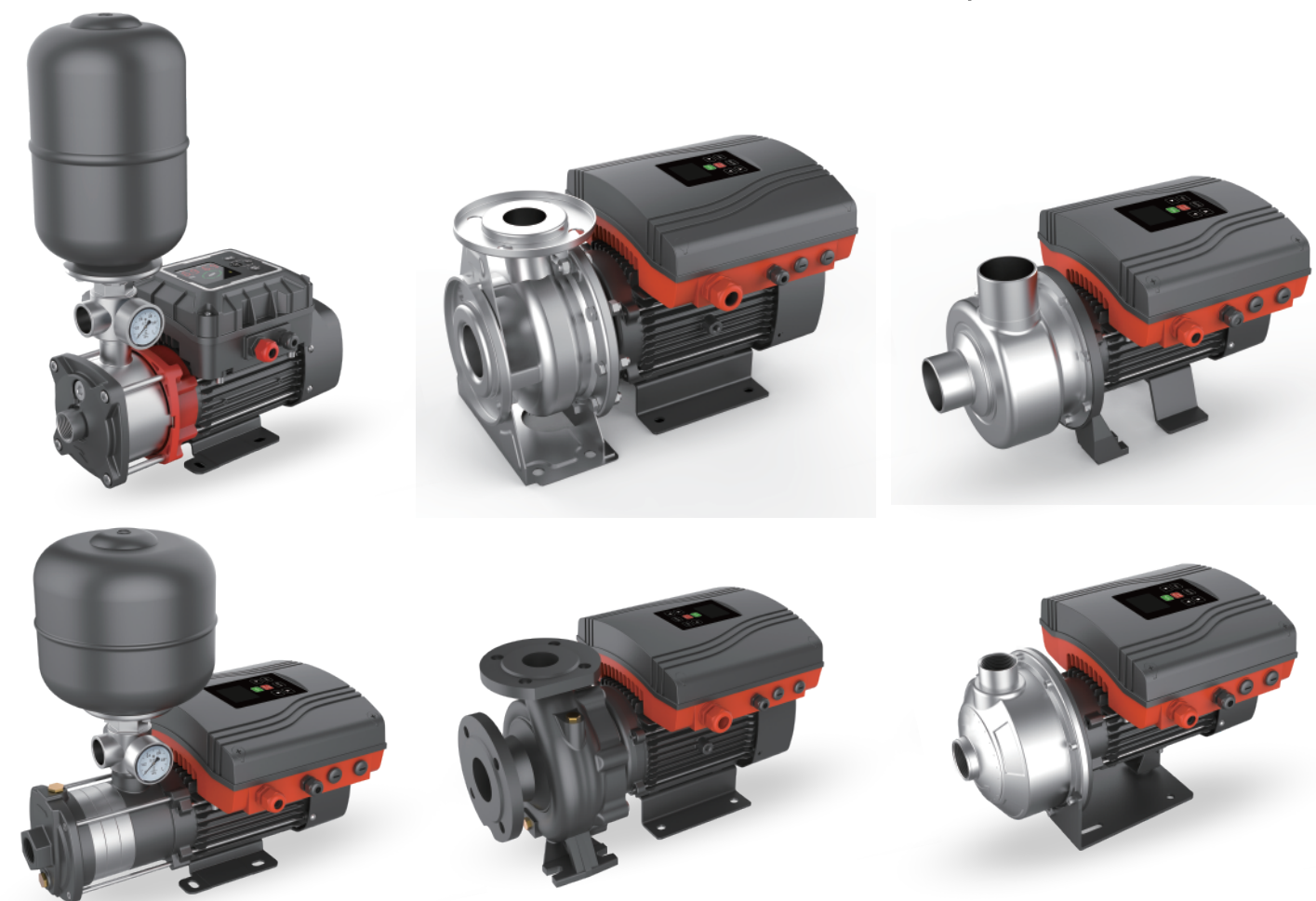
- ▶ Built-in VFD designed
- ▶ Continue saving power costs

Low Noise

- ▶ Special air-cooled cooling channel design
- ▶ Low wind noise, low harmonics, low electromagnetic noise

Multi-functions

- ▶ Intelligent constant pressure control
- ▶ Automatic energy-saving operation
- ▶ Dry run protection, Frost, Low voltage/Overvoltage/Overload protection, Phase-loss protection



Motor Technical Features

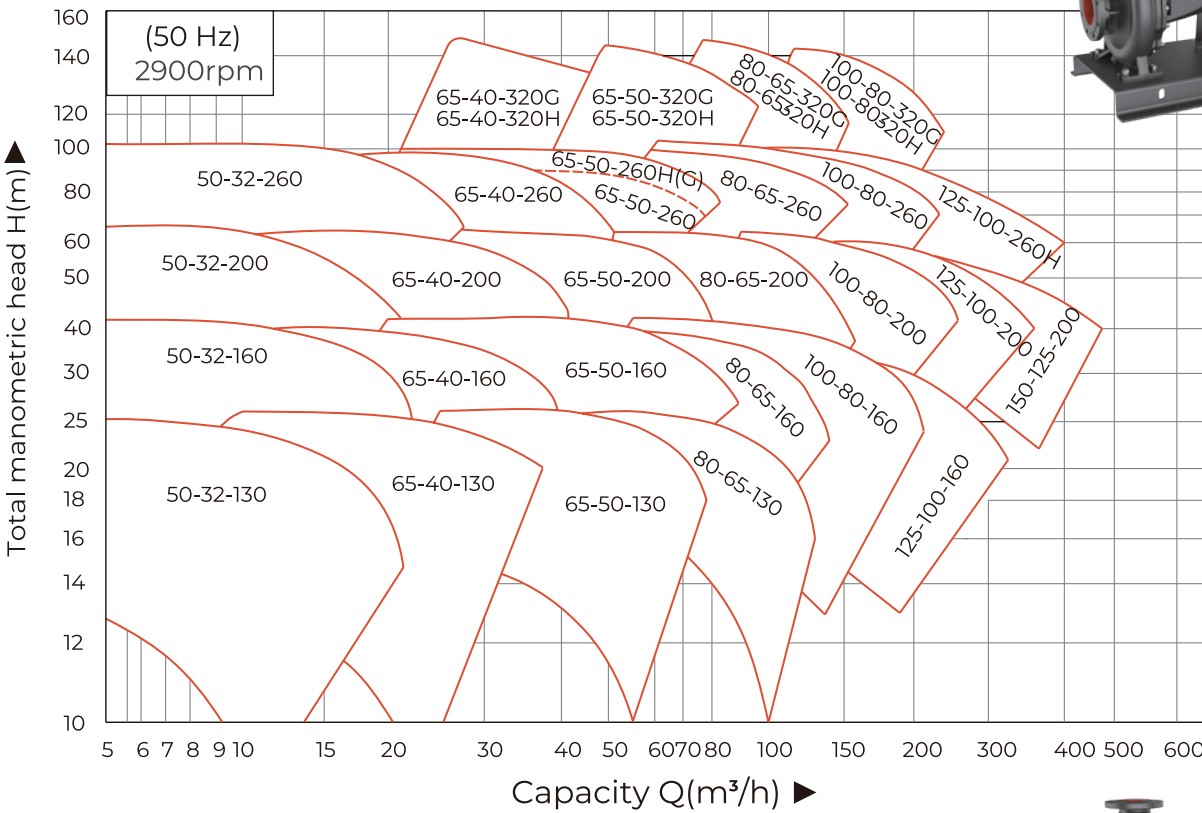
General Features of both IPM5 & IPM5E:

Rated power supply and power range	1 Phase: 0.37~2.2kw, 200~240V±10% 3 Phase: 0.37~11kw, 380~480V±10%
Rated Frequency	50Hz / 60Hz ± 5%
Protection class	IP55 According to EN60529
Insulation class	F
Duty	S1
Ambient temperature	-15 ~ +40°C (Derating above 40°C)
Storage temperature	-20 ~ +60°C
Altitude	0 - 1000m without derating
Relative humidity	Below 90%, no condensation
Cooling method	IC411
Safety requirements	Comply with GB/T 755 & IEC 60034-1
LCD Screen Function	Shows RPM, Voltage, Current, Power, Outlet pressure, Fault code
Protection functions	Frost protection, Water shortage protection, Motor overheat protection, Overload & overcurrent protection, Pipeline over & low pressure protection

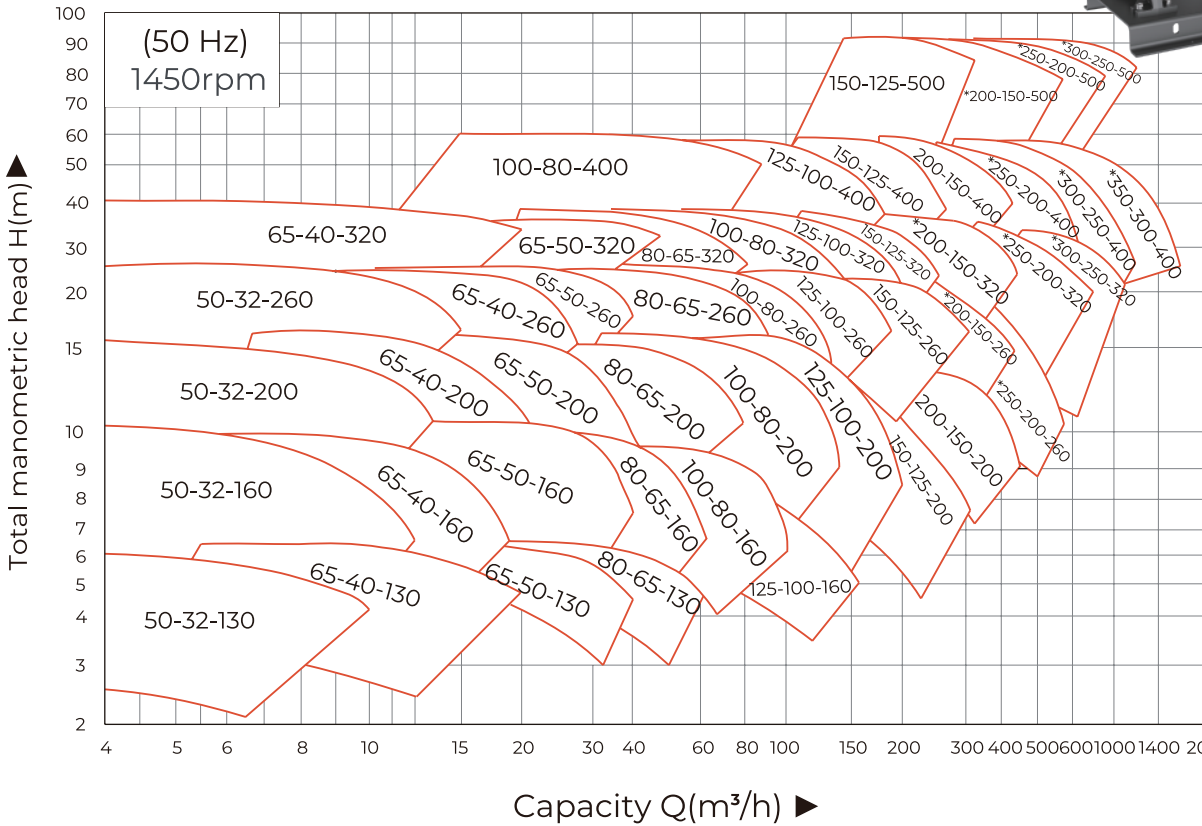
Unique feature of IPM5 :

Digital input	3-Way, programmable
Digital output	1-Way, collector output, programmable
Analog input	1-Way, 4-20mA/0-10V (For IPM5E: 1-way, 0.5-4.5V)
Analog output	1-Way, 4-20mA/0-10V
Relay output	1-Way, SPDT output, programmable
RS-485 communication	2-Way, Half-duplex transmission, support Modbus communication protocol
+24V power supply	1-Way, Maximum output current 200mA
PFC module	Optional
GPRS module	Optional
WiFi module	Optional
EMC filter	Designed according to C2 filter

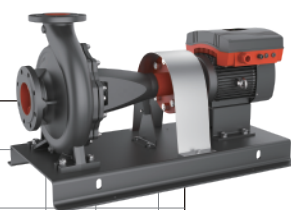
Scope of Performance - LEP



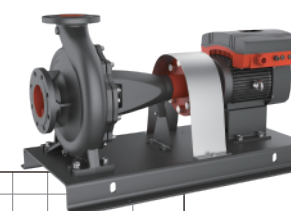
Scope of Performance - LEP



Scope of Performance - LEP



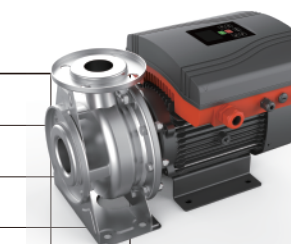
Scope of Performance - LEP



Scope of Performance-XST



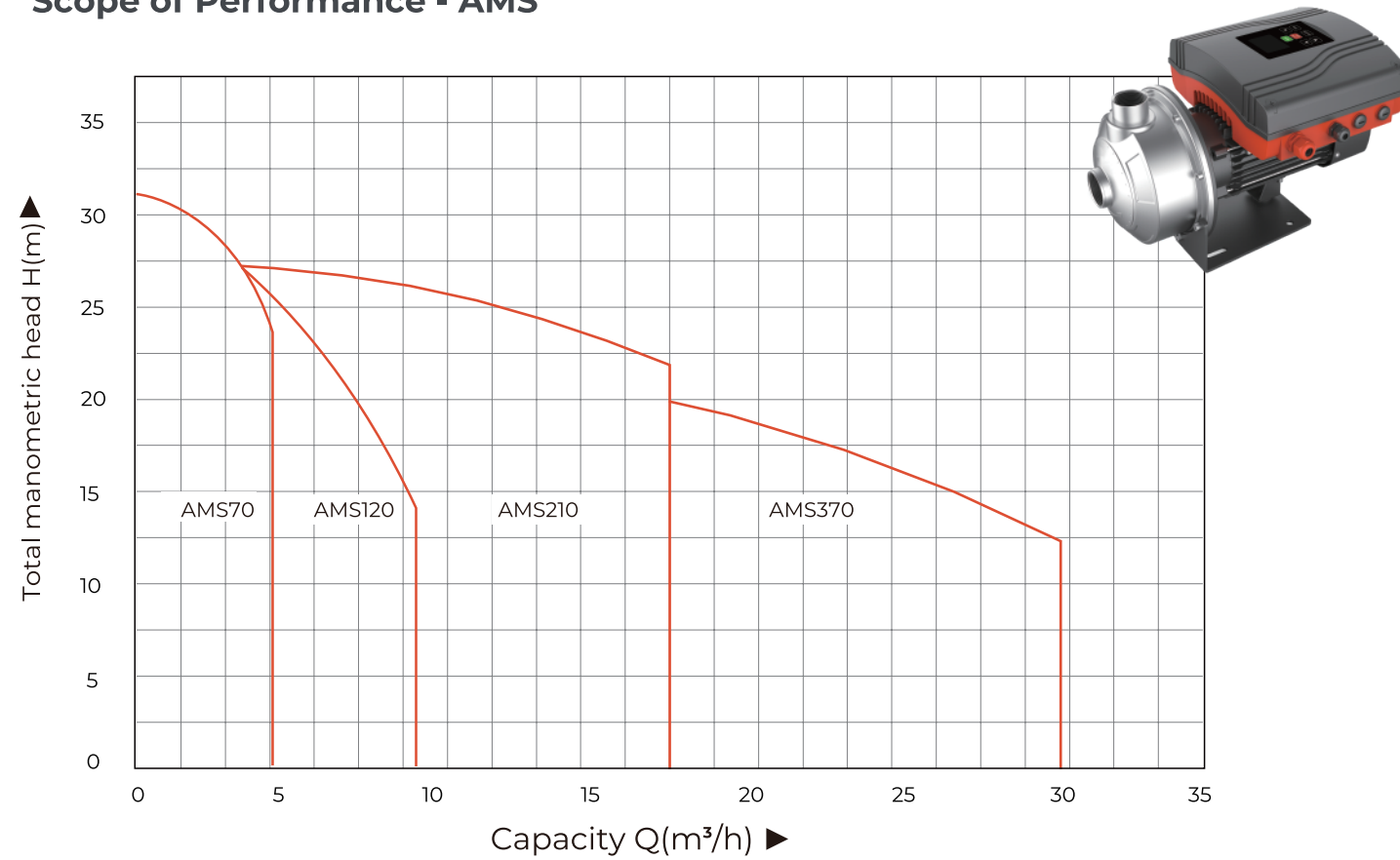
Scope of Performance-XZS



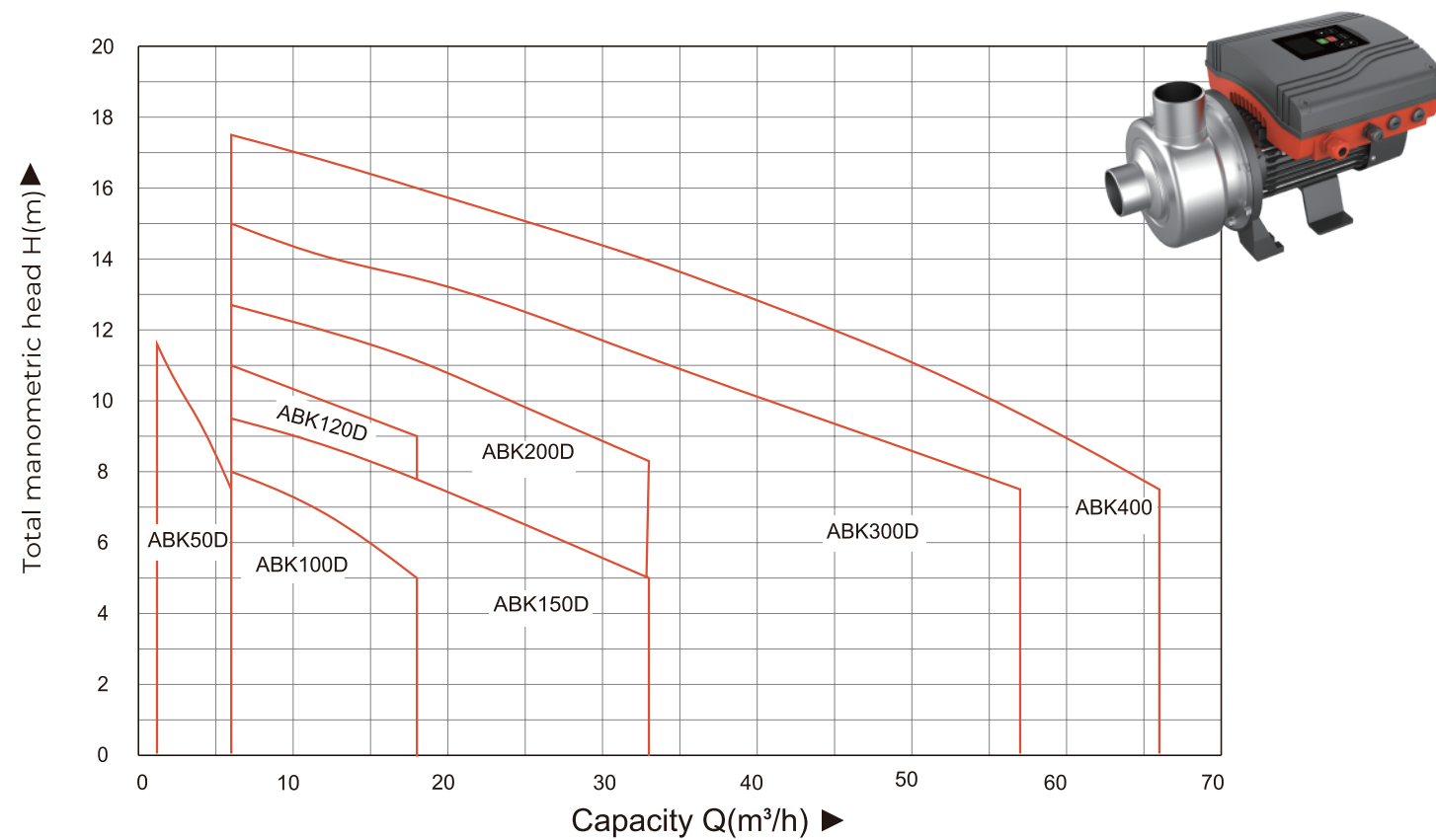
The graph illustrates the performance of the EMH series pump, plotting Total manometric head $H(m)$ against Capacity $Q(m^3/h)$. The curves represent different pump models, showing their respective head-capacity characteristics.

Capacity $Q(m^3/h)$	EMH(m)2 $H(m)$	EMH(m)3 $H(m)$	EMH(m)4 $H(m)$	EMH(m)8 $H(m)$	EMH(m)10 $H(m)$	EMH(m)12 $H(m)$	EMH(m)16 $H(m)$	EMH(m)20 $H(m)$
0.6	64	-	-	-	-	-	-	-
0.8	63	-	-	-	-	-	-	-
1.0	61	68	-	-	-	-	-	-
2.0	55	58	-	-	-	-	-	-
3.0	48	50	-	-	-	-	-	-
4.0	38	42	68	-	-	-	-	-
4.5	35	38	65	-	-	-	-	-
6.0	-	-	55	-	-	-	-	-
7.0	-	-	45	61	75	-	-	-
8.0	-	-	40	58	72	-	-	-
10.0	-	-	32	50	65	-	-	-
12.0	-	-	25	42	58	48	-	-
16.0	-	-	18	28	45	42	21	-
18.0	-	-	-	25	42	38	37	-
24.0	-	-	-	-	38	32	31	15
28.0	-	-	-	-	32	25	24	12

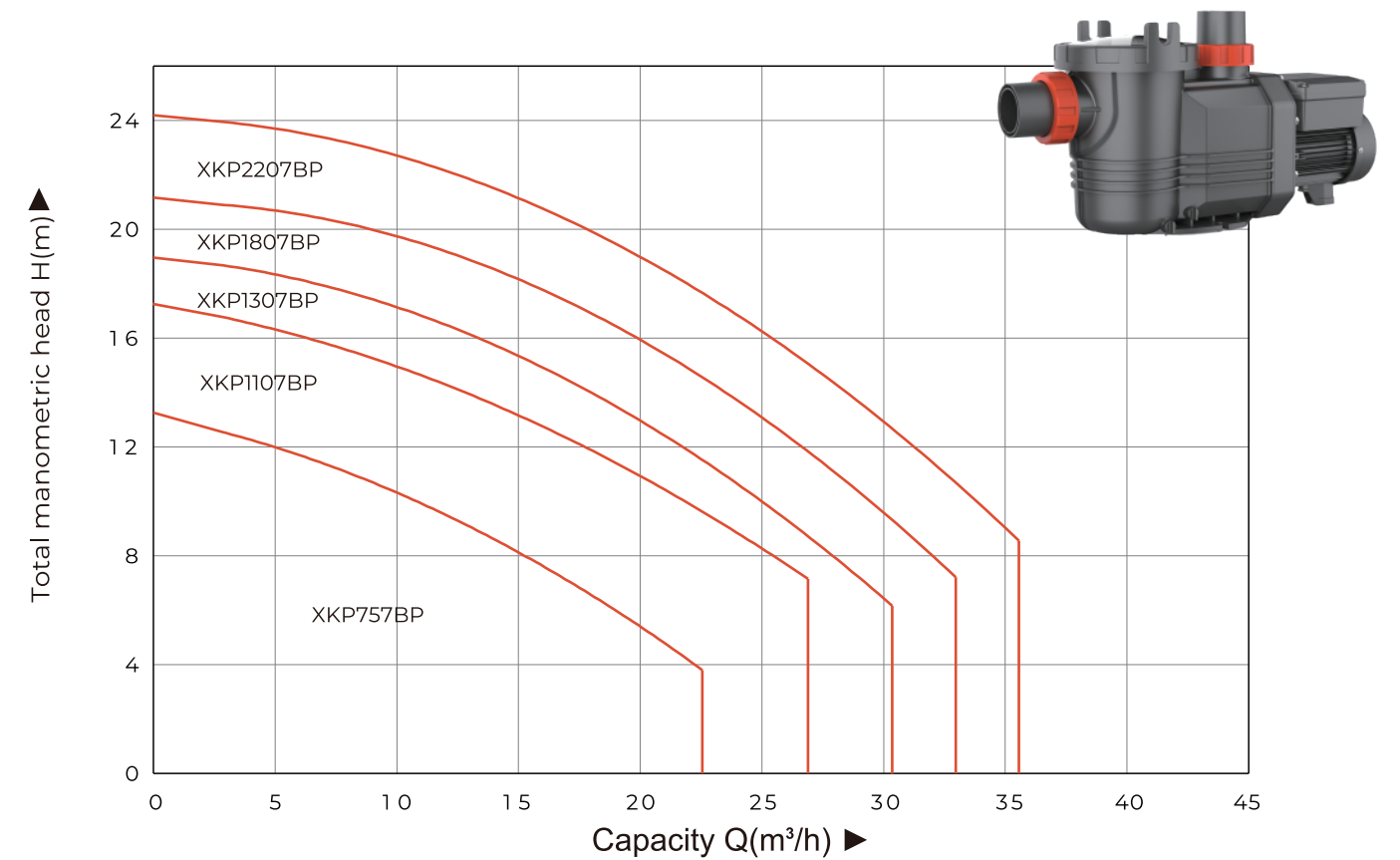
Scope of Performance - AMS



Scope of Performance - ABK



Scope of Performance - XKP



MISSION

Focus on the development of safe and high-efficiency pump & system, create value for all stakeholders.



VISION

Elevate the image of Chinese pump & system, being a sustainable developmental leading enterprise.



SPIRIT

Run business with virtue.
Pursue success with perfection.
Win victory with efficiency.
Go forward with right actions.

Intelligent Flow For Good