

Discover  
the perfect  
balance  
探索平衡之美

**AIS KLIMA**  
Underfloor heating system  
地面辐射供暖系统



# The most profitable option for plumbing installations

AIS is a German company that combines the most advanced German technology with a long-term experience in different European markets.

Since 2002, AIS has designed, manufactured and sold solutions for industrial and domestic applications. **AIS has developed the most complete range of the safest, and most competitive solutions for plumbing and heating installations.**

Our commitment to efficient production processes, quality of raw materials and rigorous quality control processes, makes our product range **one of the most reliable in the market**. AIS products comply with the highest international quality standards such as DVGW, AENOR, CE EOTA, WRAS...

Every year we make important investments in R&D with the aim of developing the most innovative products to meet the needs of our customers. **We have 2 production plants**, which puts us in a position of a reference manufacturer.





# 管道系统安装的 高性价比之选

AIS是一家德国公司，她拥有国际前沿的管道产品技术，以及长期在欧洲不同市场积累的丰富经验。

自2002年以来，AIS持续为工业建筑和居住建筑等领域提供高效设计和建筑解决方案。AIS为管道系统和供暖设备的安装，开发了一系列完整、安全和极具竞争力的解决方案。

我们致力于高效的生产流程、原材料筛选和严格的质量控制流程，所生产的管道系统产品已成为国际市场上值得人们信赖的产品。AIS管道系统产品符合DVGW, AENOR, CE EOTA, WRAS 等国际质量标准检测...

每年，我们都会在产品技术研发方面进行不断投资，旨在开发具有创新性的产品以满足客户的不同需求。AIS在欧洲拥有两家生产工厂，这也使我们成为市场上的品牌制造商。

# AIS Support, next to you in every moment

With the **Technical Support service**, the AIS team of experts will be at your disposal to advise you throughout the entire project, from the design phase to marketing and post-sale.

If it is **remote project**, you can count on our support through our **online applications** and **tools**.

Training (in the previous 3 stages)  
培训 (前3个阶段)

After the project  
项目结束

During the project  
项目期间

At the beginning of the project  
项目开始

All the specialist's  
experience in  
plumbing solutions,  
now on underfloor  
heating system.

Design and optimization  
in the facilities  
系统设计与优化

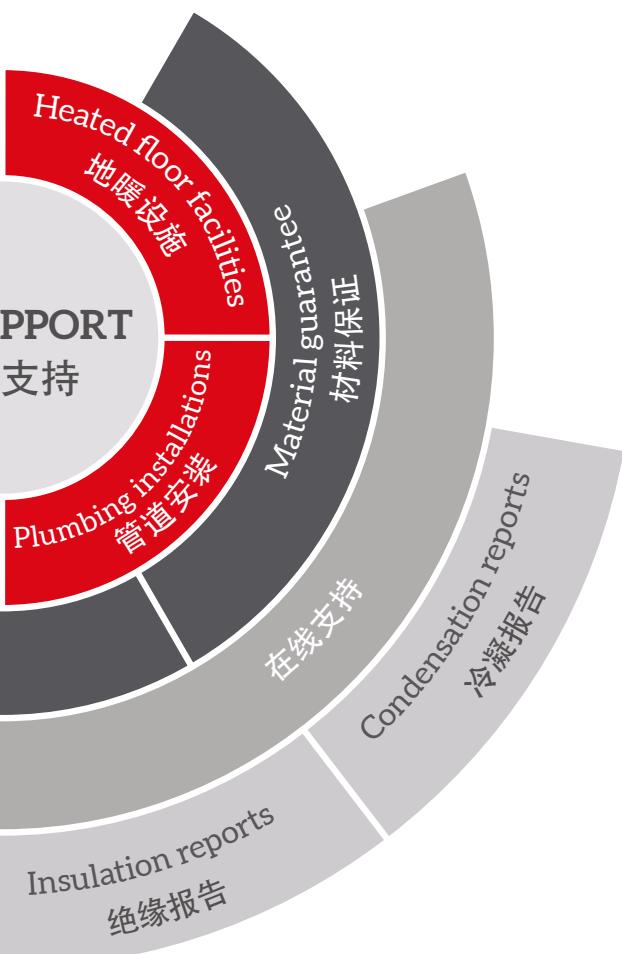
Plastic pipes  
塑料管  
Online after sales  
在线售后服务  
Online support  
在线支持  
Project quotation  
项目报价

AIS SU  
AIS

# AIS支持， 时刻伴您左右

AIS专家团队可为您提供技术支持服务，从项目的设计阶段到售前和售后，随时为您提供整体项目建议。

远程项目则可通过我们的在线应用程序和工具获得技术支持。



专业技术团队在水  
暖和地面辐射供暖  
解决方案方面拥有  
丰富的经验

# Underfloor heating system

**AIS Klima** is the most competitive underfloor heating solution on the market.

It is a **complete system** consisting of solutions in underfloor heating-cooling high performance, which are integrated to achieve a comfortable, safe and energy efficient installation.



## The pipe Klett auto-adhesive

It is a **7-layer pipe** including the **velcro self-adhesive taping**. It is made of PERT material (temperature resistant polyethylene) that gives it great flexibility, and incorporates an intermediate layer of EVOH as an oxygen anti-diffusion barrier.

The 7 layers of the pipe include 3 intermediate bonding polymer layers plus 4 functional layers which are:

- **PERT base tube**, fully optimized for underfloor heating, is designed to withstand up to 70°C continuously and is more flexible than other materials, making it faster to install and with higher performance than required in this type of installation.

- **EVOH middle layer** acts as an oxygen diffusion barrier
- **PERT outer tube** provides mechanical protection against external agents and work processes, in addition to serving as the basis for the self-adhesive tape.
- **Self-adhesive velcro taping** allows for quick tube installation by simple contact with the Klett insulating panel.



# 地面辐射供暖 系统

AIS Klima 地面辐射供暖系统解决方案极具市场竞争力。

整套解决方案由高性能的地面辐射供暖供冷系统组成，通过简单高效的安装方式，可实现安全、舒适、节能的室内环境。

## Klett自粘管道

Klett自粘管道共有7层，由耐热聚乙烯PE-RT制成，中间为EVOH阻氧层，管道柔韧性佳，带有魔术贴自粘胶带，与配套管道定位板使用，可实现快速、高效安装。

该管道由7层结构组成，包括3个中间粘接聚合物层和4个功能层：

- PE-RT基管，为地面辐射供暖优化使用，可连续承受高达70°C的温度，柔韧性相比其他材料更好，安装速度更快，性能超出此类型安装要求。
- EVOH阻氧层，位于管道中间层，有效防止氧气对管道的损伤，100%不透氧。
- PE-RT保护层，除了作为自粘胶带的基材之外，可提供管道保护作用，有效防止在运输或施工过程中外部环境对管道外壁造成的划伤。
- 魔术贴自粘胶带，通过与配套的管道定位板使用，可实现快速安装。



# Klett auto-adhesive panel



**Roll panel, with fibers to fix the pipe with velcro and with a reduced thickness design.**

It is a smooth compact panel based on insulating materials (EPS and graphite), with a thin fiber sheet in the surface area that allows the Klett pipe to be fixed by simple contact. The panel is supplied in rolls for quick installation.

- Fiber sheet on the smooth plate, **with installation guide-grid**, resistant to tearing and work processes. It allows a **quick layout of the pipes and a flexibility of the circuit design**.
- Rolled panel for quick placement on the surface, **reducing installation time and optimising labour cost**. The panel can be easily cut and adjusted to the perimeter of the room.
- **Thermal insulation:** graphite improves insulating capabilities allowing high performance with reduced thickness.
- **Acoustic insulation:** the benefits of dynamic stiffness, compressibility and thickness make it possible to comply with the regulations on air noise and impact insulation.
- **Low thickness design:** with a thickness of only 25 mm, it allows maximum use of the available height. **Suitable for new construction or reform, both in residential and construction.**

- ▶ Quick and comfortable installation.
- ▶ Tool-free, suitable for installation by a single fitter.
- ▶ Free design of the circuits and the distance between the tubes.
- ▶ Easy change and correction of circuits.
- ▶ Valid for works in single-family and high-rise houses, as well as hotels, offices and other buildings for tertiary use.

# Klett地面保温卷垫

**地面保温卷垫，表面为网格线纤维层，适用于自粘管道固定，轻薄设计**

- ▶ 快速安装
- ▶ 不需任何安装工具，可单人作业
- ▶ 安装灵活，可根据要求随意调整铺设间距
- ▶ 容易更换或调整管路
- ▶ 完美适用于多种建筑物安装，如独栋别墅、多层公寓、酒店或办公室等

Klett地面保温卷垫由石墨或EPS保温层和表面光滑的网格线纤维层组成，与Klett自粘管道配合使用。卷垫设计，方便快速安装。

- 网格纤维层带有安装导向网格线，抗撕裂性能佳，可有效避免在施工过程中造成的损伤，管道可快速安装并灵活调整。
- 卷垫可快速铺设在地面上，减少安装时间，降低人工成本。方便裁切，可根据房间大小轻松调整尺寸。
- 隔热：石墨提高了保温性能，即使减少了厚度依然确保较高隔热性能。
- 隔音：高密度石墨EPS制成，隔音效果佳，符合保温隔音法规等相关规定。
- 低厚度设计：厚度仅为25mm，可最大限度利用室内层高。完美适用于新建建筑或老房改造。



# AIS KLIMA Renovation system

## » Ultraslim Panel, for building sites with height limitation

It is a **roll panel** with a 2mm ultra low profile of thickness.

Its fiber surface and grid **allow immediate adhesion of the Klett pipe** and a quick and comfortable installation.

**AIS Klima Ultraslim** is especially indicated for renovations where thickness of assembly is very much reduced and the underfloor heating-cooling solution is a critical factor.



## 老房改造系统

### » 超薄保温卷垫，用于高度受限的建筑空间

厚度仅2mm,

其纤维表面和网格可使Klett自粘管道立即粘合, 实现快速安装。

**AIS Klima Ultraslim** 特别适用于老房改造中地面辐射供暖系统安装, 建筑室内层高受限的项目。

## » Electric system

In this solution, the pipe is replaced by a 3 mm thick cable, so that it **is an electric radiant floor**, which allows reaching the comfort temperature in a **very short time**.

The cable is attached on a mesh or included within an aluminum roll, so that **the thickness of the assembly is very reduced**.

The roll is unfolded and placed directly on the ground so that it **can be cut and rotated** when it reaches walls and obstacles, **allowing a faster and more comfortable installation**.

It is especially **suitable for small spaces** where quickly obtaining a feeling of comfort is an important added value, such as bathrooms or hotel rooms.



## » 发热电缆卷垫

在此解决方案中, 管道由3mm厚的发热电缆代替, 形成电辐射地面, 可在很短的时间内达到舒适温度。

发热电缆附着到网格上或包含在铝箔中, 大幅降低发热卷垫的厚度。

发热卷垫展开后直接放在地面上, 在到达墙壁和障碍物时方便切割和旋转, 使安装更快速、更舒适。

系统特别适用于狭小空间, 例如浴室或酒店房间, 让用户快速获得舒适感, 提高使用附加值。



# AIS KLIMA Catalogue 2020

## 2020年目录

### SELF-ADHESIVE SYSTEM 自粘式地面辐射系统

#### Klett Graphite insulation panel Klett石墨保温板



Art. N°. 产品编号	Description 描述	Dimensions and benefits 尺寸和优势	Min. unit for sale 最小出售单位
412.07825	<ul style="list-style-type: none"> <li>Graphite G-EPS roll panel, for <b>self-adhesive pipe</b>. 石墨G-EPS保温卷垫，适用于自粘管道。</li> <li>For mezzanines, on heated premises. 作为地面辐射系统保温层。</li> <li>Thermal and acoustic insulation by impact and air. 良好的绝热层能阻止砂浆或砂浆中的水份通过渗透进入绝热层，还能阻止声桥的形成。</li> </ul>	25-2 mm. 12 x 1 m. R-value= 0,78 m <sup>2</sup> K/W 热阻值 = 0,78 m <sup>2</sup> K/W $\Delta Lw = 28 \text{ dB}$	12 m <sup>2</sup>
412.12540	<ul style="list-style-type: none"> <li>Graphite G-EPS roll panel, for <b>self-adhesive pipe</b>. 石墨G-EPS保温卷垫，适用于自粘管道。</li> <li>For low on the ground, on premises NOT heated. 地面铺设保温使用。</li> <li>Thermal insulation. 隔热。</li> </ul>	40-2 mm. 8 x 1 m. R-value= 1,25 m <sup>2</sup> K/W 热阻值 = 1,25 m <sup>2</sup> K/W	8 m <sup>2</sup>

#### Klett White Insulating Panel Klett白晶保温板

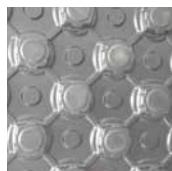


Art. N°. 产品编号	Description 描述	Dimensions and benefits 尺寸和优势	Min. unit for sale 最小出售单位
412.05625	<ul style="list-style-type: none"> <li>White EPS roll panel, for <b>self-adhesive pipe</b>. 白晶EPS保温卷垫，适用于自粘管道</li> <li>Thermal insulation, acoustic impact and air insulation. 隔热、隔音和绝缘空气。</li> </ul>	25-2 mm. 12 x 1 m. R-value = 0,56 m <sup>2</sup> K/W 热阻值 = 0,56 m <sup>2</sup> K/W $\Delta Lw = 28 \text{ dB}$	12 m <sup>2</sup>

#### Klett Self-Adhesive Pipe Klett自粘管道



Art. N°. 产品编号	Description 描述	Dimensions and benefits 尺寸和优势	Min. unit for sale 最小出售单位
116.16240	<ul style="list-style-type: none"> <li>Klett PE-RT EVOH natural white pipe. Klett PE-RT白色阻氧管道，卷材。</li> <li>7-layer tube with oxygen diffusion barrier, application class 4: underfloor heating and low temperature radiators. 7层PE-RT阻氧管道，应用类别4：地暖和低温散热器。</li> </ul>	16 x 2,00	240 m
116.16500		16 x 2,00	500 m

**NUBS PANEL SYSTEM 管道定位板系统****Nubs Insulation Plate 定位凸台保温板**

Art. N°. 产品编号	Description 描述	Dimensions and benefits 尺寸和优势	Min. unit for sale 最小出售单位
411.2542	<ul style="list-style-type: none"> <li>Thermoformed EPS. 热成型EPS。</li> </ul>	1400 x 800 mm (1,12 m <sup>2</sup> ) Base thickness = 20 mm. 挤塑板厚度=20mm。 R-value = 0,75 m <sup>2</sup> K/W 热阻值= 0,75 m <sup>2</sup> K/W Total thickness = 42 mm. 总厚度= 42 mm。	11,2 m <sup>2</sup>
411.2546	<ul style="list-style-type: none"> <li>EPS laminated. 层压EPS。</li> </ul>	1350 x 750 mm (1,01 m <sup>2</sup> ) Base thickness = 17 mm. 挤塑板厚度=17mm。 R-value = 0,75 m <sup>2</sup> K/W 热阻值= 0,75 m <sup>2</sup> K/W Total thickness = 46 mm. 总厚度= 46 mm。	14,17 m <sup>2</sup>

**PE-Xa EVOH pipe PE-Xa阻氧管道**

Art. N°. 产品编号	Description 描述	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
113.16240	<ul style="list-style-type: none"> <li>PE-Xa EVOH piping, with oxygen diffusion barrier. PE-Xa阻氧管道。</li> </ul>	16 x 2,00	240
113.16500	<ul style="list-style-type: none"> <li>Natural white color*. 天然白色*。</li> </ul>	16 x 2,00	500
113.20500		20 x 2,00	500

**PE-RT EVOH pipe PE-RT阻氧管道**

Art. N°. 产品编号	Description 描述	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
117.16240	<ul style="list-style-type: none"> <li>PERT EVOH piping, with oxygen diffusion barrier. PE-RT阻氧管道。</li> </ul>	16 x 2,00	240
117.16500	<ul style="list-style-type: none"> <li>Natural white color*. 天然白色*。</li> </ul>	16 x 2,00	500
117.20500		20 x 2,00	500

**PE-RT - AL - PE-RT multilayer pipe 铝塑复合管道**

Art. N°. 产品编号	Description 描述	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
101.16500	<ul style="list-style-type: none"> <li>PE-RT - AL- PE-RT pipe. 铝塑复合管道。</li> </ul>	16 x 2,00	500

**REFURBISHED AND RENOVATED SYSTEM 翻新系统****UltraSlim Panel 超薄保温卷垫**

Art. N°. 产品编号	Description 描述	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
412.303046	<ul style="list-style-type: none"> <li>Ultra low profile especially suitable for refurbished. 超薄保温卷垫，特别适用于层高受限的建筑改造。</li> <li>For Klett self-adhesive pipe. 适用于Klett自粘管道。</li> <li>With adhesive layer, for direct installation on the existing floor. 带粘合层，可直接安装在现有地面上。</li> </ul>	20 x 1,05 m. Thickness: 2 mm. 厚度: 2mm。	21 m <sup>2</sup>

\* More colors available (we inform you). / \*更多颜色（敬请期待）。

## ELECTRIC SYSTEM 电地暖系统

### Electric Radiant Floor 电地暖



Art. N°. 产品编号	Description 描述	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
413.160305	<ul style="list-style-type: none"> <li>Thin bed heating mat. 超薄电地暖卷垫。</li> <li>Power 160 W/m<sup>2</sup>. 功率160W/m<sup>2</sup>。</li> <li>Installation in mortar and under tile floor. 安装在砂浆和瓷砖地板下。</li> </ul>	4 m <sup>2</sup> (length 8 m; width 0,5 m). (长8m; 宽0.5m)。 Cable 3 mm. 电缆3mm。	1
413.140305	<ul style="list-style-type: none"> <li>Aluminum thin bed heating mat. 超薄铝箔电地暖卷垫。</li> <li>Power 140 W/m<sup>2</sup>. 功率140W/m<sup>2</sup>。</li> <li>Installation on foam and under wooden floor or carpet. 安装在泡沫上和木地板或地毯下。</li> </ul>	Available from 1 m <sup>2</sup> to 12 m <sup>2</sup> , on request. Consult. 可根据要求, 提供 1 m <sup>2</sup> -12 m <sup>2</sup> 的尺寸。敬请 咨询。	1
423.220003	<ul style="list-style-type: none"> <li>Programmable digital thermostat for electric underfloor heating. 可编程数字恒温器, 适用于电地暖系统。</li> <li>Includes soil probe and temperature limitation. 包括土壤探针和温度限制。</li> </ul>	80,5 x 80,5 x 42,5 mm.	1

## CLIMATE CONTROL ZONING SYSTEM 气候分区控制系统

### Room thermostat with cable F-C 有线拨盘式房间温控器



Art. N°. 产品编号	Description 描述	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
422.3012	• Heating / Cooling. 适用于辐射供暖供冷系统	86 x 86 x 26 mm	1

### Programmable wireless digital thermostat 230V 无线可编程数字房间温控器



Art. N°. 产品编号	Description 描述	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
422.5080	<ul style="list-style-type: none"> <li>Heating / Cooling. 辐射供暖供冷系统</li> <li>Local operation and online WebApp. 通过网页和APP进行本地和远程控制</li> </ul>	86 x 86 x 26 mm	1

### Wireless room thermostat 无线拨盘式房间温控器



Art. N°. 产品编号	Description 描述	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
422.5081	<ul style="list-style-type: none"> <li>Heating / Cooling. 辐射供暖供冷系统</li> <li>Local operation and online WebApp. 通过网页和APP进行本地和远程控制</li> </ul>	86 x 86 x 26 mm	1

### Thermostatic actuator 230V电热执行器



Art. N°. 产品编号	Description 描述	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
422.5090	<ul style="list-style-type: none"> <li>Thermostatic actuator 230V. 230V电热执行器</li> <li>4 wires with micro.</li> </ul>	44,3 x 48,4 x 57,3 mm	1

### Underfloor heating connection unit refrigerant 无线连接中央控制箱



Art. N°. 产品编号	Description 描述	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
422.5073	<ul style="list-style-type: none"> <li>Wireless. For 4 zones - 6 actuator. 230V WebApp Control. 230V无线连接中央控制箱, 可控制4个区域, 连接6个电热执行器, 可通过网页和APP远程控制</li> </ul>	225 x 75 x 52 mm	1
422.5074	<ul style="list-style-type: none"> <li>Wireless. For 8 zones - 12 actuator. 230V WebApp Control. 230V无线连接中央控制箱, 可控制8个区域, 连接12个电热执行器, 可通过网页和APP远程控制</li> </ul>	355 x 75 x 52 mm	1

**MANIFOLD AND MANIFOLD WALL CABINETS 分集水器和分集水器箱****Underfloor heating manifold box 标准款暗装分集水器箱**

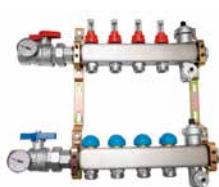
Art. N°. 产品编号	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
422.100	46x71x11 cm (2-3 loops) (2-3个回路)	1
422.102	60x71x11 cm (4-6 loops) (4-6个回路)	1
422.103	75x71x11 cm (6-9 loops) (6-9个回路)	1
422.104	90x71x11 cm (9-12 loops) (9-12个回路)	1

**Low depth manifold box 薄款暗装分集水器箱**

Art. N°. 产品编号	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
422.435082	43x71x08-13 cm (2-4 loops) (2-4个回路)	1
422.535082	53x71x08-13 cm (4-6 loops) (4-6个回路)	1
422.680082	68x71x08-13 cm (6-9 loops) (6-9个回路)	1
422.835082	83x71x08-13 cm (9-12 loops) (9-12个回路)	1
422.1035082	103x71x08-13 cm (12-15 loops) (12-15个回路)	1

**1" stainless steel manifold with automatic drain - 3/4" eurocone outlets**

1"不锈钢分集水器, 带自动排水阀, 3/4外螺纹欧盟锥接口



Art. N°. 产品编号	Nº. loops 回路编号	Min. unit for sale 最小出售单位
422.1002	2 loops 2个回路	1
422.1003	3 loops 3个回路	1
422.1004	4 loops 4个回路	1
422.1005	5 loops 5个回路	1
422.1006	6 loops 6个回路	1
422.1007	7 loops 7个回路	1
422.1008	8 loops 8个回路	1
422.1009	9 loops 9个回路	1
422.1010	10 loops 10个回路	1
422.1011	11 loops 11个回路	1
422.1012	12 loops 12个回路	1

**AIS Air plastic kit manifold module tube 2 circuit 模块化带流量计塑料分集水器**

Art. N°. 产品编号	Description 描述	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
	<ul style="list-style-type: none"> <li>• Body 1"1/4". 主管带有1"1/4"外螺纹接口。</li> <li>• Connection to main pipes in 1"1/4" M. 1"1/4"外螺纹接口与主管连接。</li> <li>• Supply and return circuits 3/4" M. 回路接口尺寸为3/4"外螺纹欧盟锥接口。</li> </ul>	2 loops	1

**AIS Air additional circuit module 模块化带流量计分集水器单回路拼接模块**

Art. N°. 产品编号	Description 描述	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
	<ul style="list-style-type: none"> <li>• Body 1"1/4". 主管带有1"1/4"外螺纹接口。</li> <li>• Connection to power and return circuits 3/4" M. 回路接口尺寸为3/4"外螺纹欧盟锥接口。</li> </ul>	1 loop	1

**Set 2 sphere wrenches for plastic modular manifold 分集水器球阀**

Art. N°. 产品编号	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
	<ul style="list-style-type: none"> <li>• 1"1/4" H mobile fitting - 1" H. 1"1/4"- 1"内螺纹球阀</li> </ul>	1

**Monoblock eurocone adapter for PE-Xa and PE-RT pipes**

适用于PE-Xa和PE-RT管道的螺口活接头, 3/4"内螺纹带欧盟锥接口,

Art. N°. 产品编号	Dimensions 外型尺寸	Min. unit for sale 最小出售单位	Min. package qty 最小包装数量
421.8151534	15x1,50 - 3/4"		
421.8161834	16x1,80 - 3/4"	2	50
421.8162034	16x2,00 - 3/4"		
421.8202034	20x2,00 - 3/4"		

**HYDRAULIC REGULATION 液压调节****Two-way zone valve 电动二通阀**

Art. N°. 产品编号	Description 描述	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
422.6223034	• Zone 2 MM motorized valve 230V. 230V电动二通阀	3/4"	1
422.62230100		1"	1

**By-pass valve 压差旁通阀**

Art. N°. 产品编号	Description 描述	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
422.6025100	• By-pass valve perimeter pressure 0.25 bar. 压差旁通阀0.25 bar。	1"	1

**Drive Group 混水中心**

Art. N°. 产品编号	Description 描述	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
422.6000	• Drive group and mix to fixed point. 水力调节与输配系统	-	1

**INSTALLATION ACCESSORIES 辅材配件****Anti-moisture film 防潮膜**

Art. N°. 产品编号	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
420.5012	4 m x 25 m. Thickness 0,2 mm. 厚0.2mm。	100 m <sup>2</sup>

**Perimeter skirting 封边带**

Art. N°. 产品编号	Description 描述	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
420.150850	• Perimeter skirting with plastic skirt and scotch tape. 封边带符合DIN 18560标准，材料为聚乙烯，背面带自粘胶，正面带自粘胶带，可将封边带和隔热材料之间的缝隙紧密地密封，不含氯氟烃。每卷长度：50m	150mm x 8mm x 50m	50 m

**AIS Klima adhesive panel union tape coil AIS-Klima胶带**


Art. N°. 产品编号	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
412.4866	48 mm x 66 mm.	1

**Polyamide guide curve for polyethylene pipe 聚酰胺弯管支架**


Art. N°. 产品编号	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
421.04002	Suitable for 16 mm pipe. 适用于16mm管道	2

**Fluidizing additive for mortar 砂浆流化剂**


Art. N°. 产品编号	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
460.1080	25 Kg. carafe 25 Kg。	1

## TOOLS 切割工具

**Tube cutter scissors from 16 to 26 mm with support to facilitate calibration 16-26mm切管剪, 带支撑件, 便于校准**


Art. N°. 产品编号	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
360.61632	Scissors from 16 to 26 mm. 16-26mm剪刀。	1
360.616260	Replacement scissors blade. 更换刀片。	1

**Pipe cutter for PEX and Multilayer pipes 割刀**


Art. N°. 产品编号	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
360.81640	Up to diameter 40 mm. 直径达40mm。	1
360.81675	Up to diameter. 75 mm. 直径达75mm。	1

**Tube uncoilers for Multilayer ergonomic 管道开卷机**


Art. N°. 产品编号	Dimensions 外型尺寸	Min. unit for sale 最小出售单位
360.1140360	Height 870 - 1122 mm Øext1140 - Øint360 mm  高度870 - 1122 mm Ø外径1140 - Ø内径360mm	1



ADVANCED  
INSTALLATION  
SOLUTIONS

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