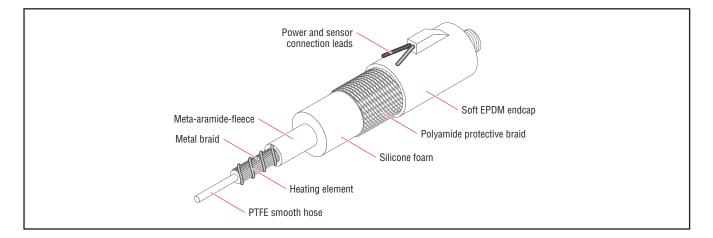


# IHH-ST2A/ST2D Previously IHH-200



# Heated hose, standard range for liquid and gaseous media

Isopad IHH-ST2A/ST2D is a flexible heated hose for liquid and gaseous media with a maximum operating temperature of 200°C. The standard versions have smooth PTFE inner hose constructions with stainless steel braiding for pressurized operation. The thermal insulation consists of metaaramide fleece and silicone foam. Mechanical protection is provided by a polyamide braid and soft ethylene propylene diene monomer (EPDM) endcaps. Built-in Pt100 sensors provide optimum temperature control for the medium. The evenly wrapped resistance heating cable allows an homogeneous heat distribution throughout the hose. The standard versions can be used for a wide range of applications. Special designs are available on request with focus on the performance level and/or environmental influences. See our list of options for your desired design on page 3.



Area Specifications				
Area classification	Nonhazardous, ordinary area			
Ingress protection	IP54			
Electrical protection class	Class I			
Maximum withstand temperature (power off)	200°C			
Ambient temperature range	-20 to +40°C			
Standard Manufacturing Sizes				
Length	Up to 19 m <sup>(1)</sup>			
Tolerances	According to DIN 20066			
Nominal width	4, 6, 8, 10, 13 mm			
<sup>(1)</sup> Available in steps of 0.1 m				
Heater Construction				
Туре	Resistance heating cable			
Material	Various alloys			
Material of insulation	PTFE			
Material of outer sheath	Copper-nickel braid			
Carrier	Stainless steel braid			
Inner hose	Smooth PTFE hose			
Fittings	AGR or DKR according to ISO 228/1			
Fitting material	Galvanized steel			
Thermal fabric fibre insulation	Meta-aramide-fleece of 4 to 5 mm thickness			

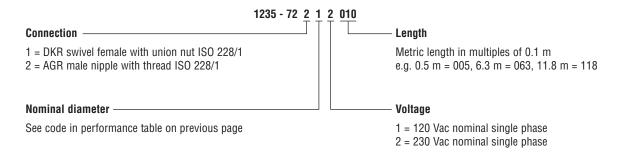
Heater Construction				
Thermal foam insulation	Silicone of 9 to 11 mm thickness			
Outer protection	Polyamide braid			
Lead Connection				
Connection length	1.5 m			
Cross section	Depending on design			
Maximum operating temperature	180°C			
Insulation material	Silicone			
Temperature Control				
Sensor type	Pt100 two-wire DIN Class B			
Sensor lead length	1.5 m			
Lead cross section	Depending on design			
Maximum operating temperature	180°C			
Sensor lead material	Silicone			
Technical Data				
Frequency	50-60 Hz			
Nominal operating voltage	120 or 230 Vac			
Nominal power	Depending on design			
Power per meter	Maximum 140 W/m (see performance table)			
Minimum insulation resistance	100 MΩ			
Maximum operating temperature	200°C			
Maximum operating pressure	See performance table			
Minimum bend radius	See performance table			

#### **Performance Table**

Nominal diameter		Power (W/m)	Maximum static pressure (bars)		Minimum bend radius (mm)	
Code	mm	at 200°C	at 20°C	at 200°C	Static	Dynamic <sup>(1)</sup>
1	4	90	250	208	100	200
2	6	100	240	199	150	300
3	8	110	200	166	200	400
4	10	120	175	145	140	480
5	13	140	150	125	270	540

operating and 20°C ambient temperature. Dynamic performance of heated hoses is recommended to be tested for each individual application.

### Ordering Information - Part Number Configurator (for standard versions only, not applicable for special versions )



**Example:** 1 m heated hose, 4 mm nominal diameter, 230 V supply voltage, AGR connection **Part Number: 1235-72212010** 

#### Options for Special Versions

If your requirements are not met by the above specifications, we can tailor-make a heated hose to suit you. Variations depend on design and can include:

- Other nominal sizes and inner hoses, e.g. supplied components for individual heating
- Sizes up to 120 m
- Sensor types, e.g. thermocouples Type K, Type J, etc.
- Supply voltage up to 400 V, single-phase or three-phase
- · Higher power outputs
- Increased ingress protection, e.g. IP65 for outdoor applications
- Increased pressure resistance, up to 415 bar at 200°C (depending on nominal diameter)
- Other materials, e.g. for applications recommending silicone free production
- Approved components for the use in hazardous areas according to IECEx and ATEX
- Replaceable inner hoses for nonpressurized gas analysis
- Premounted plugs and special supply and messenger leads
- Controlling devices and high temperature lock-out thermostats









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