

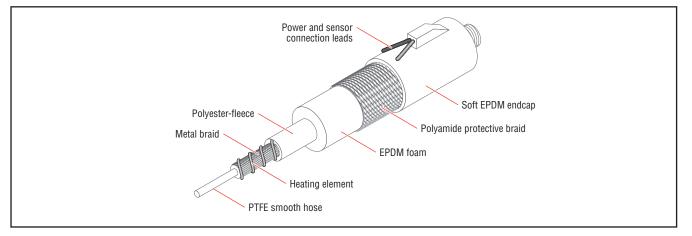
IHH-ST1A/ST1D Previously IHH-100



Heated hose, standard range for liquid and gaseous media

Isopad IHH-ST1A/ST1D is a flexible heated hose for liquid and gaseous media with a maximum operating temperature of 100°C. The standard versions have smooth PTFE inner hose constructions with stainless steel braiding for pressurized operation. The thermal insulation consists of polyester fleece and ethylene propylene diene monomer (EPDM) foam. Mechanical protection is provided by a polyamide braid and soft 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)	100°C		
Ambient temperature range	-20 to +40°C		
Standard Manufacturing Sizes			
Length	Up to 19 m ⁽¹⁾		
Tolerances	According to DIN 20066		
Nominal width	4, 6, 8, 10, 13 mm		
(1) Available in steps of 0.1 m			
Heater Construction			
Type	Resistance heating cable		

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	Polyester-fleece of 4 to 5 mm thickness

IHH-ST1A/ST1D

Heater Construction				
Thermal foam insulation	EPDM 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 110 W/m (see performance table)			
Minimum insulation resistance	100 ΜΩ			
Maximum operating temperature	100°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 100°C	at 20°C	at 100°C	Static	Dynamic ⁽¹⁾
1	4	70	250	238	100	200
2	6	80	240	228	150	300
3	8	90	200	190	200	400
4	10	100	175	166	140	480
5	13	110	150	143	270	540
				nd (1 Hz) with compress recommended to be		

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

1235 - 71 2 1 2 010

-----Length

1 = DKR swivel female with union nut ISO 228/1

2 = AGR male nipple with thread ISO 228/1

Nominal diameter

Connection -

See code in performance table on previous page

-Lengtn

Metric length in multiples of 0.1 m e.g. 0.5 m = 005, 6.3 m = 063, 11.8 m = 118

Voltage

1 = 120 Vac nominal single phase

2 = 230 Vac nominal single phase

Example: 1 m heated hose, 4 mm nominal diameter, 230 V supply voltage, AGR connection Part Number: 1235-71212010

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 475 bar at 100°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









France :

THERMOCOAX SAS 40 Bd Henri Sellier F 92156 SURESNES Cedex Tél. : +33 1 41 38 80 50 Fax : +33 1 41 38 80 70 info@thermocoax.com

Germany :

THERMÓCOAX ISOPAD GmbH Englerstrasse 11 D-69 126 HEIDELBERG Tél. : +49 6221 3043-0 Eay : +49 6221 3043-956

Fax : +49 6221 3043-956 isopad.info@thermocoax.com

USA : THERMOCOAX Inc.

6825 Shiloh Road East, Ste B-3 ALPHARETTA, GA 30005 Tél. : +1 800 298 3345 Fax : +1 678 947 4450 info@thermocoax.us

UK :

THERMOCOAX UK Ltd. Office N° 5

Manor Farm Aubourn, Lincolnshire LN5 9DX Tél. : +44 (1522) 789 900 Fax : +44 (1522) 789 902 info-uk@thermocoax.com

CHINA :

法国热缆公司 四川省成都市蛟龙工业港双流园 区涪江路11座 电话:13701325459 info-china@thermocoax.com

Important : All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their particular application. THERMOCOAX makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use. THERMOCOAX only obligations are those in the THERMOCOAX Standard Terms and Conditions of Sale for this product, and in no case will THERMOCOAX or its distributors be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of the product. Specifications are subject to change without notice. In addition, THERMOCOAX reserves the right to make changes—without notification to Buyer—to processing or materials that do not affect compliance with any applicable specification.

