

Series 40-75

Vacuum Superinsulated Hoses

When environmental chambers, cold traps, freezing units etc. are fed with liquid nitrogen from a dewar or pipeline, it is common to connect them to the source via flexible stainless steel hoses.

However, the insulation of such hoses has, in the past, been a problem. Either the hoses have been left uninsulated, leading to severe nitrogen losses, ice build-up etc., or a conventional insulation jacket has been fitted. Unfortunately conventional insulants do not remain flexible at low temperature, and such insulation jackets often crack up and crumble.

Thames Cryogenics now offer a solution to this problem, which can be especially difficult in such environments as clean rooms and food production areas.

Series 40-75 vacuum superinsulated flexible hoses give a higher degree of insulation than any conventional insulant, yet remain flexible even while liquid nitrogen is passing through them.

The all-stainless steel construction means that there are no messy materials to crack up and cause contamination.

The jacket of the hose remains at close to ambient temperature and so extended ice buildups are avoided.

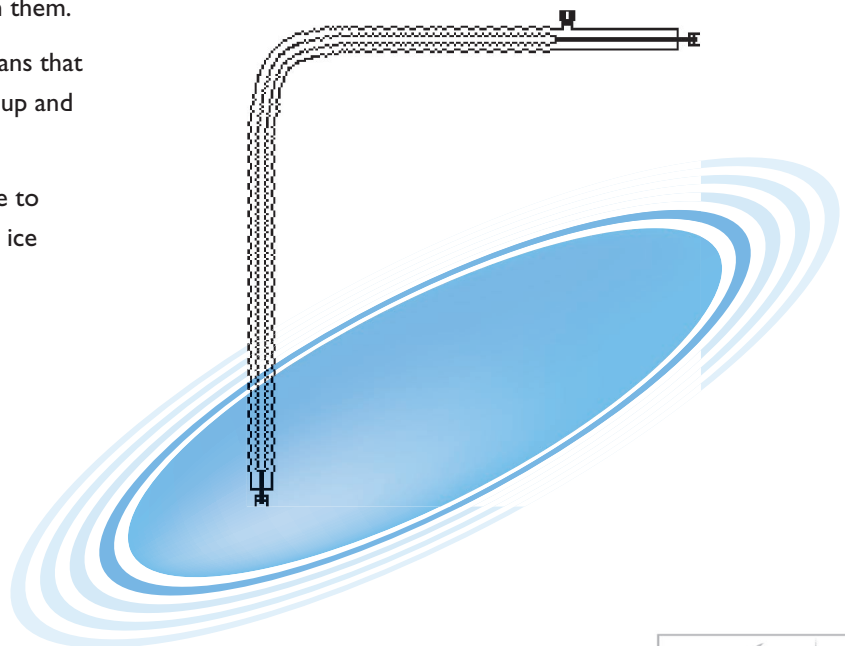
Series 40-75 hose comes in 6 sizes: 10mm, 12mm, 20mm, 25mm, 32mm, 40mm bore, in lengths from 1 metre to 10metres per section and are available to order. End terminations are female bsp loose nut and nipple as standard, but any suitable fitting can be supplied, including bayonet and quick-connect types.

Liquid oxygen versions are also available.

Specifications

(Dimensions in mm)

Internal Diameter	10	12
External Diameter	48	54
Minimum bend radius	150	200
Maximum pressure	20 (barg)	20 (barg)



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