



TRANE®

Engineering Bulletin

**ChillerSource™ Temporary Cooling -
Flex Duct**

CHS-PRB004-EN

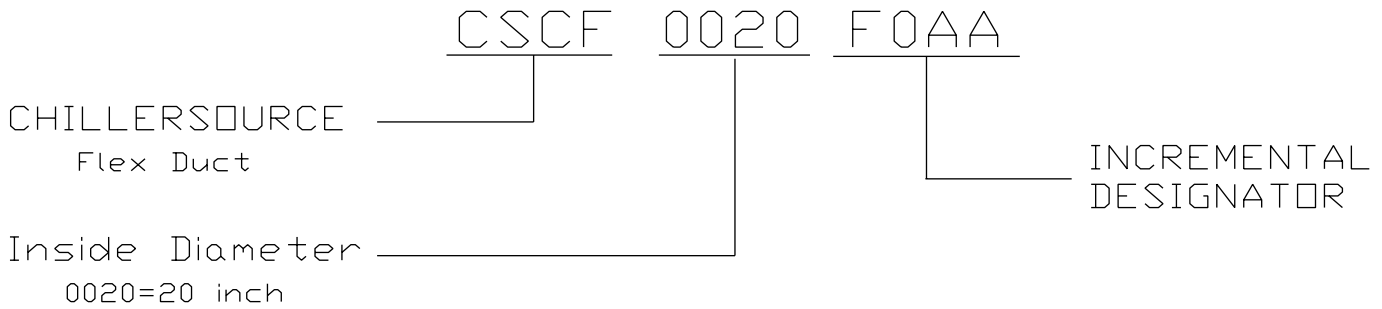


Scope

This bulletin covers the specification sheets for the flex duct that is available to rent with ChillerSource™ Voyager III rental units.

General Information

Flex duct is offered as a means to support the Voyager III rental units. The information contained in this engineering bulletin is provided to ensure the safety of the equipment and its surroundings as well as supply all of the technical data that may be needed. Please note the positive and negative pressure recommendations for the duct should never exceed the maximum values.



Please contact ChillerSource™ Marketing for availability of all equipment prior to obtaining a Purchase Order.

Technical Data

Inside Diameter: 20 in.
Min Centerline Bend Radius: 11.5 in.
Weight of duct (25' section): 1.4 lbs./ft
Temp Range: -20°F to 160°F
Max Pressure Recommended: 13.88 in. SP
Weight of Duct Box: 300 lbs.

Composition: Single-ply, PVC/fabric bonded for integral strength, supported by a wide pitch spring steel wire helix allowing the duct to retract into a fraction of the fully extended length, the helix is protected by an external contrasting wearstrip.



- Retractability allows for convenient storage in a fraction of its fully extended length
- Easily transported in its retracted state
- Low friction loss
- Recognized flame retardant to UL 94V-O with Underwriters Laboratories
- External wearstrip resists abrasion

"Belted Connection"

The connection type on the duct was chosen due to its simplicity. By cinching tight the small black band, a secure connection is formed. The picture to the right depicts how this is accomplished.



“Flex Duct Box”



The flex duct is contained in a lightweight plastic box (shown to the left), which is approximately four feet long and four feet wide. The box contains; (4) 25' sections of 20" flex duct, (2) connector sleeves and a small quantity of duct tape for minor repairs. The picture below shows a connector sleeve, which would be used for any run longer than 25 feet. In order for the duct to fit securely on the sleeve, you must slide the duct over the lip of the connector.

“Connector Sleeve”

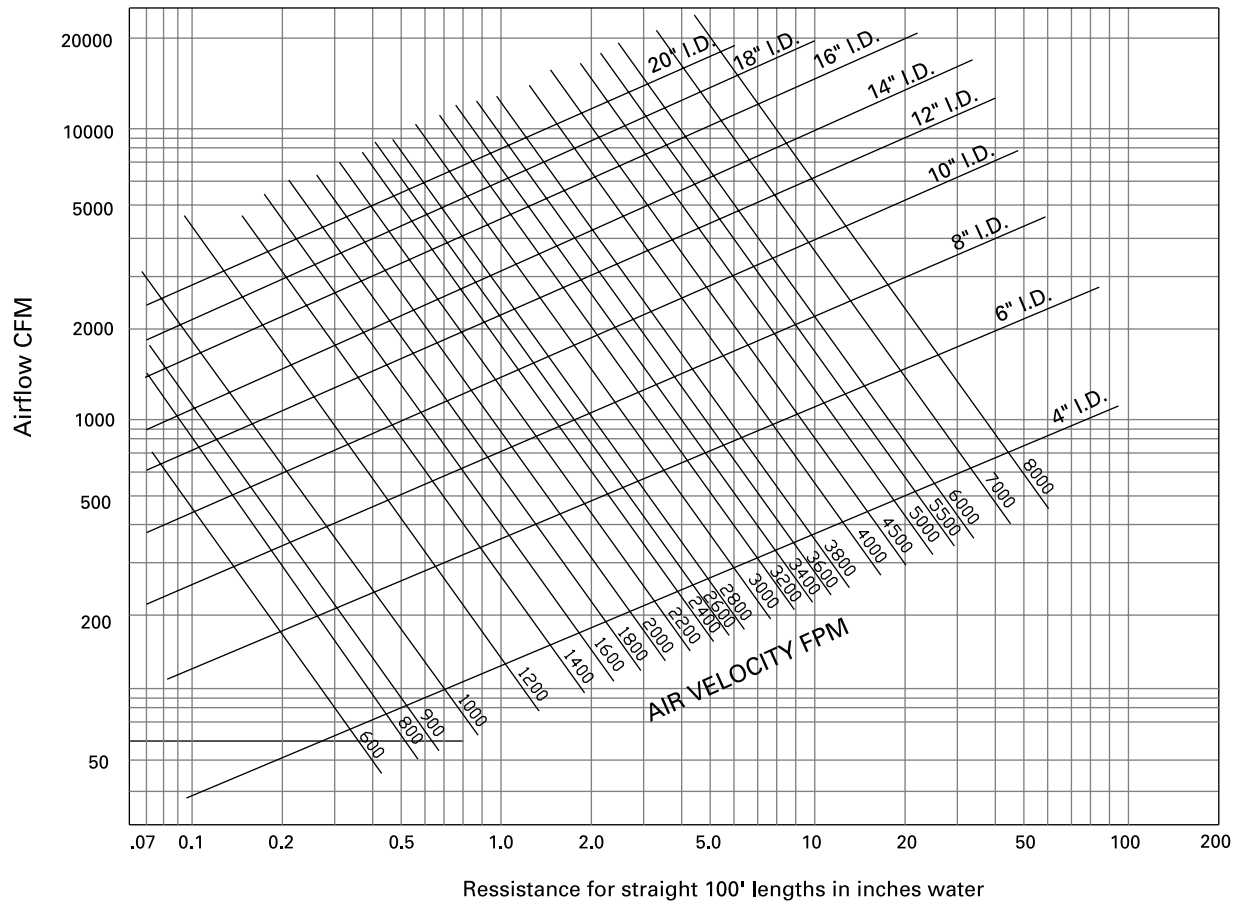


“Wire-Tie Reinforcement”



We have determined that there is a separation issue when joining two sections of the flex duct. The lip on the connector sleeve is not always adequate for securing the duct. We are currently working on a permanent solution to this issue, but in the interim, it is our recommendation to use interconnection wire ties to hold the duct together. Wire ties will be included in with the flex duct and sleeves.

Friction Loss Chart



The maximum discharge static pressure for each unit is as follows:

- 25 ton - 1.5 in. SP
- 35 ton - 2.25 in. SP
- 50 ton - 2.50 in. SP



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Supersedes	New
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Since Trane has a policy of continuous product and product data improvement, it reserves the right to change design and specifications without notice.